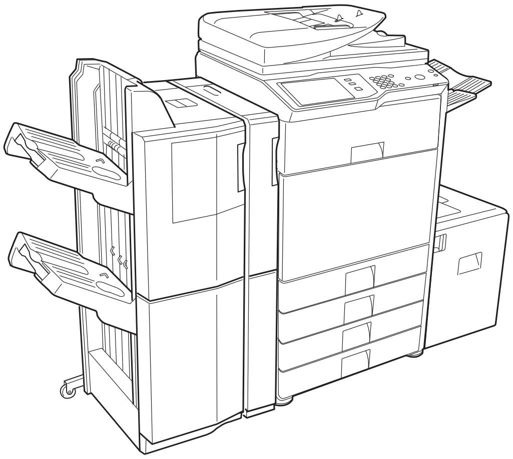
⚠1 : '10/Jun/18

SHARP INSTALLATION MANUAL

CODE: 00ZMXM503/I3E



DIGITAL MULTIFUNCTIONAL SYSTEM

MODEL MX-M283N
MX-M363N/U
MX-M453N/U
MX-M503N/U
MX-M282N/M362N ⚠1
MX-M452N/M502N

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∗ Refer to the MX-PC11 (00ZMXPC11/A1J) service manual

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used
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The contents are subject to change without notice.

△ : '10/Jun/18

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∗ Refer to the MX-PC11 (00ZMXPC11/A1J) service manual

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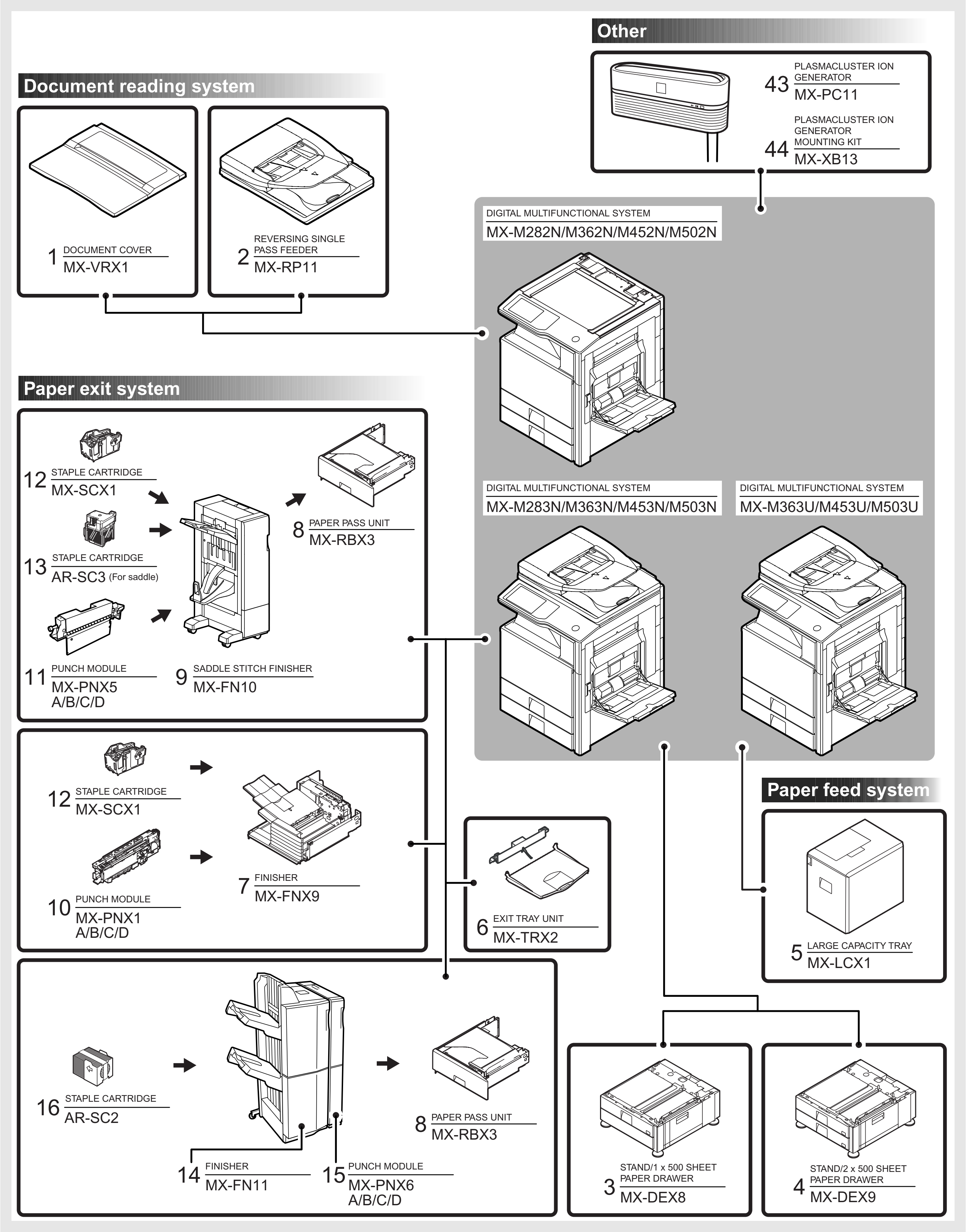
CONFIGURATION

1. Main unit and option


1
Other
43 PLASMACLUSTER ION GENERATOR
MX-PC11
44 PLASMACLUSTER ION GENERATOR MOUNTING KIT
MX-XB13
Document reading system
1 DOCUMENT COVER
MX-VRX1
2 REVERSING SINGLE PASS FEEDER
MX-RP11
DIGITAL MULTIFUNCTIONAL SYSTEM
MX-M282N/M362N/M452N/M502N
Paper exit system
12 STAPLE CARTRIDGE
MX-SCX1
13 STAPLE CARTRIDGE
AR-SC3 (For saddle)
11 PUNCH MODULE
MX-PNX5 A/B/C/D
9 SADDLE STITCH FINISHER
MX-FN10
8 PAPER PASS UNIT
MX-RBX3
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MX-M283N/M363N/M453N/M503N
DIGITAL MULTIFUNCTIONAL SYSTEM
MX-M363U/M453U/M503U
12 STAPLE CARTRIDGE
MX-SCX1
10 PUNCH MODULE
MX-PNX1 A/B/C/D
7 FINISHER
MX-FNX9
6 EXIT TRAY UNIT
MX-TRX2
Paper feed system
5 LARGE CAPACITY TRAY
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16 STAPLE CARTRIDGE
AR-SC2
14 FINISHER
MX-FN11
15 PUNCH MODULE
MX-PNX6 A/B/C/D
8 PAPER PASS UNIT
MX-RBX3
3 STAND/1 x 500 SHEET PAPER DRAWER
MX-DEX8
4 STAND/2 x 500 SHEET PAPER DRAWER
MX-DEX9

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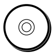
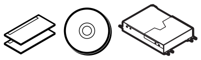
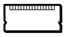
Printer expansion

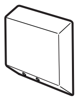


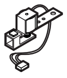




No.	Name	Model
17	PRINTER EXPANSION KIT WITHOUT HDD (For U model only)	MX-PB10
18	PRINTER EXPANSION KIT WITH HDD (For U model only)	MX-PB11
19	PS3 EXPANSION KIT	MX-PKX1
20	XPS EXPANSION KIT	MX-PUX1
21	BARCODE FONT KIT	AR-PF1

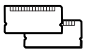
Image send expansion





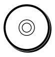
No.	Name	Model
22	FACSIMILE EXPANSION KIT	MX-FXX2
23	STAMP UNIT	AR-SU1
24	STAMP CARTRIDGE	AR-SV1
25	INTERNET FAX EXPANSION KIT	MX-FWX1
26	ENHANCED COMPRESSION KIT (For N model only)	MX-EBX3
27	APPLICATION INTEGRATION MODULE	MX-AMX1
28	NETWORK SCANNER EXPANSION KIT (For U model only)	MX-NSX1

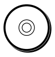
Authentication/Security

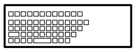


No.	Name	Model
29	DATA SECURITY KIT (For the machine with HDD installed)	MX-FR14U
30	DATA SECURITY KIT (For the machine with HDD installed)	MX-FR14
31	DATA SECURITY KIT (For the machine without HDD installed)	MX-FR15U
32	DATA SECURITY KIT (For the machine without HDD installed)	MX-FR15
33	DATA SECURITY KIT	MX-FR24U

Application/Solution

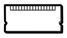






No.	Name	Model
34	SHARPDESK 1 LICENSE KIT	MX-USX1
35	SHARPDESK 5 LICENSE KIT	MX-USX5
36	SHARPDESK 10 LICENSE KIT	MX-US10
37	SHARPDESK 50 LICENSE KIT	MX-US50
38	SHARPDESK 100 LICENSE KIT	MX-USA0
39	APPLICATION COMMUNICATION MODULE	MX-AMX2
40	EXTERNAL ACCOUNT MODULE	MX-AMX3
41	KEYBOARD (For N model only)	MX-KBX2

Memory



No.	Name	Model
42	EXPANSION MEMORY BOARD	MX-SMX3

2. Main unit configuration

	MX-M363N/MX-M453N/ MX-M503N	MX-M283N	MX-M363U/MX-M453U/ MX-M503U	MX-M282N/MX-M362N/ MX-M452N/MX-M502N
Copier	STD	STD	STD	STD
PCL printer	STD	STD	OPT*1	STD
PS printer	OPT*1	OPT*1	OPT*1	OPT*1
Main body LCD	COLOR WVGA 8.5"	COLOR WVGA 8.5"	MONOCHROME HVGA 8.1"	COLOR WVGA 7"
FAX	OPT	OPT	OPT	OPT
Scanner	STD	STD	OPT*1	STD
Filing (Print hold function)	STD	STD	OPT*1	STD
HDD	STD	STD	OPT*1	STD
RSPF/DSPF/OC	DSPF	RSPF	RSPF	RSPF or OC
Automatic duplex	STD	STD	STD	STD
Security	OPT*1	OPT*1	OPT*1	OPT*1
Internet Fax	OPT*1	OPT*1	OPT*1	OPT*1

STD: Standard provision. OPT: Option. OPT*1: Product key target.

3. Combination of options

Section		Name	Model name	MX-M283N MX-M363N MX-M453N MX-M503N	MX-M363U MX-M453U MX-M503U	MX-M282N MX-M362N MX-M452N MX-M502N	Product key target	Remarks
Document reading system	1	DOCUMENT COVER	MX-VRX1	—	—	○		
	2	REVERSING SINGLE PASS FEEDER	MX-RP11	STD/—*5	STD	○		
Paper feed system	3	STAND/1 x 500 SHEET PAPER DRAWER	MX-DEX8	○	○	○		
	4	STAND/2 x 500 SHEET PAPER DRAWER	MX-DEX9	○	○	○		
	5	LARGE CAPACITY TRAY	MX-LCX1	○	○	○		A4
Paper exit system	6	EXIT TRAY UNIT	MX-TRX2	○	○	○		
	7	FINISHER	MX-FNX9	○	○	○		Inner finisher
	8	PAPER PASS UNIT	MX-RBX3	○	○	○		
	9	SADDLE STITCH FINISHER	MX-FN10	○	○	○		
	10	PUNCH MODULE	MX-PNX1A/ B/C/D	○	○	○		For inner finisher

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Section		Name	Model name	MX-M283N MX-M363N MX-M453N MX-M503N	MX-M363U MX-M453U MX-M503U	MX-M282N MX-M362N MX-M452N MX-M502N	Product key target	Remarks
Paper exit system	11	PUNCH MODULE	MX-PNX5A/B/C/D	○	○	○		For saddle stitch finisher
	12	STAPLE CARTRIDGE	MX-SCX1	○	○	○		For finisher (MX-FNX9)/ For saddle stitch finisher (MX-FN10)
	13	STAPLE CARTRIDGE	AR-SC3	○	○	○		For saddle
	14	FINISHER	MX-FN11	○	○	○		
	15	PUNCH MODULE	MX-PNX6A/B/C/D	○	○	○		For finisher (MX-FN11)
	16	STAPLE CARTRIDGE	AR-SC2	○	○	○		For finisher (MX-FN11)
Printer expansion	17	PRINTER EXPANSION KIT WITHOUT HDD	MX-PB10	—	○	—	○	
	18	PRINTER EXPANSION KIT WITH HDD	MX-PB11	STD	○	STD	○	
	19	PS3 EXPANSION KIT	MX-PKX1	○	○	○	○	
	20	XPS EXPANSION KIT	MX-PUX1	○*3	○*3	○*3	○	The expansion memory board (MX-SMX3) is required.
	21	BARCODE FONT KIT	AR-PF1	○	○	○		
Image send expansion	22	FACSIMILE EXPANSION KIT	MX-FXX2	○*1	○*1	○*1		
	23	STAMP UNIT	AR-SU1	○	○	○		
	24	STAMP CARTRIDGE	AR-SV1	○	○	○		
	25	INTERNET FAX EXPANSION KIT	MX-FWX1	○	○*4	○	○	
	26	ENHANCED COMPRESSION KIT	MX-EBX3	○	—	○		
	27	APPLICATION INTEGRATION MODULE	MX-AMX1	○	○*4	○	○	
	28	NETWORK SCANNER EXPANSION KIT	MX-NSX1	STD	○	STD	○	
Authentication/Security	29	DATA SECURITY KIT (For the machine with HDD installed)	MX-FR14U	○	○*4	—	○	Commercial version
	30	DATA SECURITY KIT (For the machine with HDD installed)	MX-FR14	○	○*4	—	○	Authentication version
	31	DATA SECURITY KIT (For the machine without HDD installed)	MX-FR15U	—	○	—	○	Commercial version
	32	DATA SECURITY KIT (For the machine without HDD installed)	MX-FR15	—	○	—	○	Authentication version
	33	DATA SECURITY KIT	MX-FR24U	—	—	○	○	Commercial version
Application/Solution	34	SHARPDESK 1 LICENSE KIT	MX-USX1	○	○	○		
	35	SHARPDESK 5 LICENSE KIT	MX-USX5	○	○	○		
	36	SHARPDESK 10 LICENSE KIT	MX-US10	○	○	○		
	37	SHARPDESK 50 LICENSE KIT	MX-US50	○	○	○		
	38	SHARPDESK 100 LICENSE KIT	MX-USA0	○	○	○		
	39	APPLICATION COMMUNICATION MODULE	MX-AMX2	STD/○*2	○*4	STD/○*2	○	For North America, the SharpOSA Utility CD-ROM is not provided.
	40	EXTERNAL ACCOUNT MODULE	MX-AMX3	○	○*4	○	○	
	41	KEYBOARD	MX-KBX2	STD/○*2	—	—		
Memory	42	EXPANSION MEMORY BOARD	MX-SMX3	○	○	○		1GB (Required when the XPS expansion kit is used.)
Others	43	PLASMACLUSTER ION GENERATOR	MX-PC11	○	○	○	○	
	44	PLASMACLUSTER ION GENERATOR MOUNTING KIT	MX-XB13	○	○	○	○	

STD: Standard provision. ○: Installable. —: Cannot be connected.

*1: No support for some destinations.

*2: Standard for North America.

*3: Memory expansion are required.

*4: The printer expansion kit with hard drive (MX-PB11) is required.

*5: MX-M283N includes this as standard equipment. Other models of MX-M283N includes DSPF as standard equipment.

[1] MX-M283N/M363N/M363U/M453N/M453U/M503N/M503U/M282N/M362N/M452N/M502N

1. Installing (use) conditions

Before installing the machine, check that the following installing (use) conditions are satisfied.

If the installing (use) conditions are not satisfied, the machine may not display full performances, resulting in troubles. It may also cause safety problems. Therefore, be sure to arrange the installing (use) conditions before setting up the machine.

No.	Content
1	Bringing space
2	Installing space
3	Power source (Capacity, fluctuation, safety)
4	Floor strength
5	Direct rays of the sun, dust, temperature, humidity, gases, chemicals

A. Bringing space

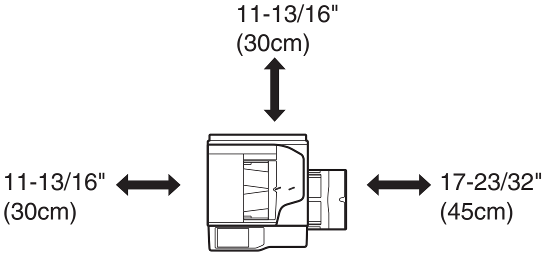
For installation of a large size machine, be sure to check that the door size is wide enough before bringing in.

B. Installing space

The following space must be provided around the machine in order to assure machine performances and proper operations.

If any option is installed, provide the additional space for installing it.

Adequate space must be provide behind the machine for proper ventilation heat and dust. If not, the machine cannot exhibit functions against heat and dust, causing some troubles.



C. Power source (Capacity, voltage, frequency, safety, plug)

If the power specifications are not satisfied, the machine cannot exhibit full performances and may cause safety trouble.

Strictly observe the following specifications.

(1) Power capacity

Check that the following power capacity is satisfied. If not, additionally provide a power source.

Current capacity

100V: 15A or more

200V: 10A or more

NOTE: Check the shape of the power plug of the machine, and insert it into a power outlet of the acceptable shape.

(2) Power voltage

Measure the voltage during copying to check that the voltage is in the range of the specified voltage ±10%.

If the voltage is outside the specified range, use thicker lead wires to reduce impedance.

(An electrical work is required.)

Use of a step-up transformer is also available. In this case, the capacity must be great enough for the max. power consumption of the machine.

(3) Power frequency, waveform

The frequency must be within the range of the specified frequency ±2%. If power waveform is deformed, a trouble may occur.

(4) Safety

Be sure to properly ground the machine.

Grounding (earth connection) must be performed before inserting the power plug into the power outlet.

When disconnecting the earth connection, be sure to disconnect the power plug from the power outlet in advance.

(5) Power plug

Check the shape of the power plug of the machine, and insert it into a power outlet of the acceptable shape.

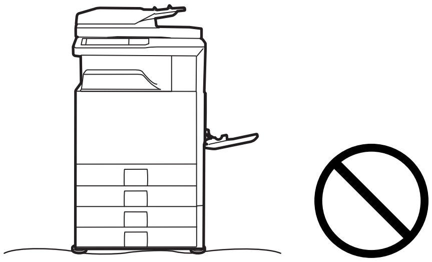
D. Floor strength and level

This machine is considerably heavy and becomes heavier with an option installed.

The floor must be strong enough for assuring safety.

If the unit is not horizontally installed, the toner density control is not performed normally, degrading the copy quality.

If not, color shift or image distortion may occur.



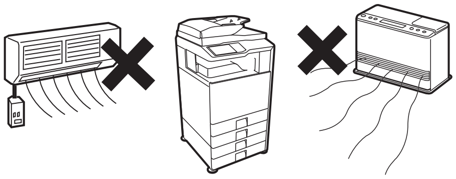
E. Direct rays of the sun, dust, temperature, humidity, gasses, chemicals, vibration

(1) Temperature and humidity

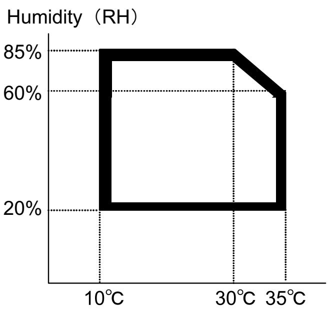
This machine is designed to perform properly under the specified temperature and humidity. If the temperature and humidity exceeds the specified range, the machine may not operate properly and or cause equipment failure.

Especially when the humidity is too high, paper absorbs humidity to cause a paper jam or dirty copy.

Do not install the machine near a heater, a cooler, or a humidifier.



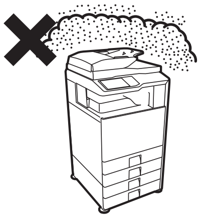
Dew may be formed inside the machine to cause a trouble. Use enough care for ventilation.



- Working environment
  Temperature: 10 to 35°C
  Humidity: 20 to 85% RH
  Atmospheric pressure: 590 to 1013hPa (altitude: 0 to 2000 m)

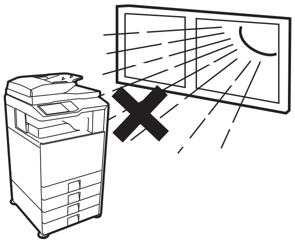
(2) Dust

If dust enters the machine, it may cause dirty copy and a paper jam, resulting in a shortened lifetime.



(3) Direct rays of the sun

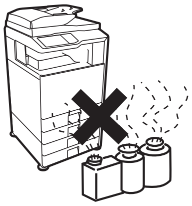
If the machine is installed under the rays of the sun, the exterior of the machine may be discolored and abnormal copies may be produced.



(4) Gases and chemicals

Do not install the machine at a place where there are gases and chemicals. Especially be careful to avoid installation near a diazo-type copier, which produces ammonium gas.

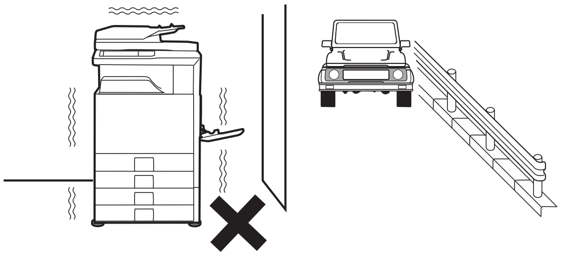
Copy quality may be adversely affected and a trouble may be caused.



(5) Vibration

Avoid installation near a machine which produces vibrations.

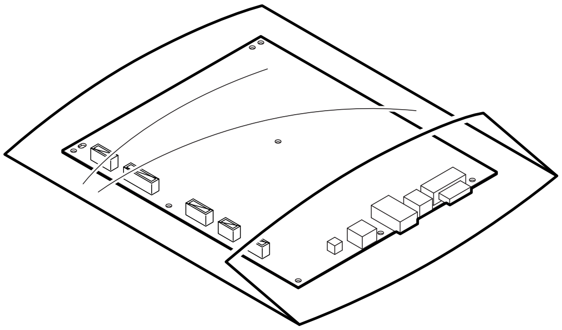
If vibrations are applied to the copier machine, copy images may be deflected and a trouble may be caused.



F. Note for handling PWB and electronic parts

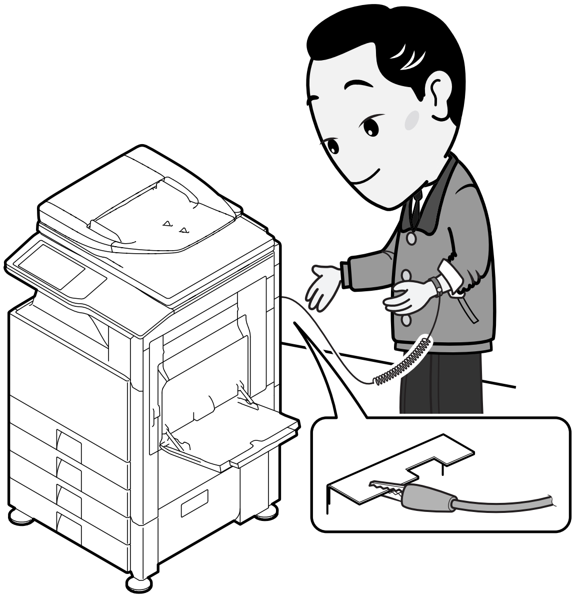
When handling the PWB and the electronic parts, be sure to observe the following precautions in order to prevent against damage by static electricity.

1) When in transit or storing, put the parts in an anti-static bag or an anti-static case and do not touch them with bare hands.

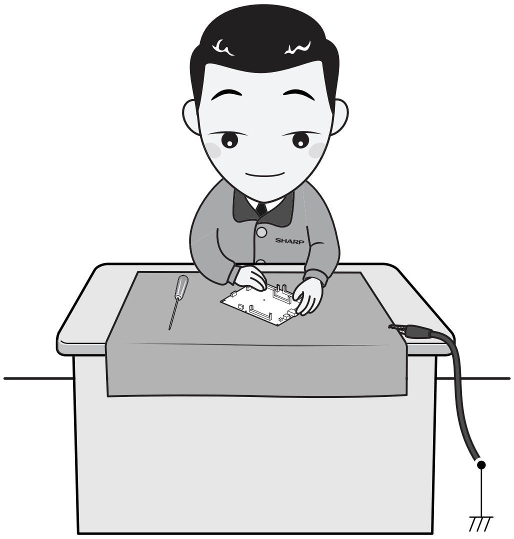


2) When and after removing the parts from an anti-static bag (case), use an earth band as shown below:

- Put an earth band to your arm, and connect it to the machine.



- When repairing or replacing an electronic part, perform the procedure on an anti-static mat.



G. Note for handling the drum unit, the transfer unit, the developing unit, and the fusing unit

When handling the OPC drum unit, the transfer unit, and the developing unit, strictly observe the following items.

If these items are neglected, a trouble may be generated in the copy and print image quality.

(Drum unit)

1) Avoid working at a place with strong lights.
2) Do not expose the OPC drum to lights including interior lights for a long time.
3) When the OPC drum is removed from the machine, cover it with light blocking material. (When using paper, use about 10 sheets of paper to cover it.)
4) Be careful not to attach fingerprints, oil, grease, or other foreign material on the OPC drum surface.

(Transfer unit)

1) Be careful not to attach fingerprints, oil, grease, or other foreign material on the transfer roller.

(Developing unit)

1) Be careful not to attach fingerprints, oil, grease, or other foreign material on the developing unit.

(Fusing unit)

1) Be careful not to put fingerprints, oil, grease, or other foreign material on the fusing roller and the external heating belt.
2) Do not leave the fusing roller in contact state for a long time.

2. Transit and delivery

No.	Content	Method
1	Implements, facility, and man power	Use a forklift. (If no forklift is available, manpower of two persons is required.)
2	Delivery	Transit must be made in packed condition.

A. Implements, facility, and manpower

It is recommendable to use a forklift for bringing in the machine for safety.

If no forklift is available, man-power of two persons is required. The machine is considerably heavy, and requires safety precautions for delivery and installation.

Transit of the machine must be made in packed condition to the installing place.

Since the hard disk drive is built in the machine, use care not to exert vibrations or shocks to the machine when in transit.

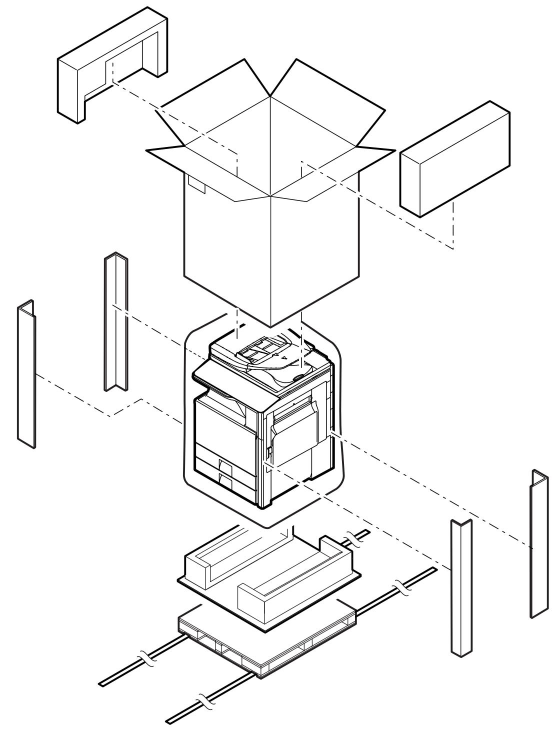
B. Delivery

Remove the packing materials prior to installation in the office environment.

3. Unpacking

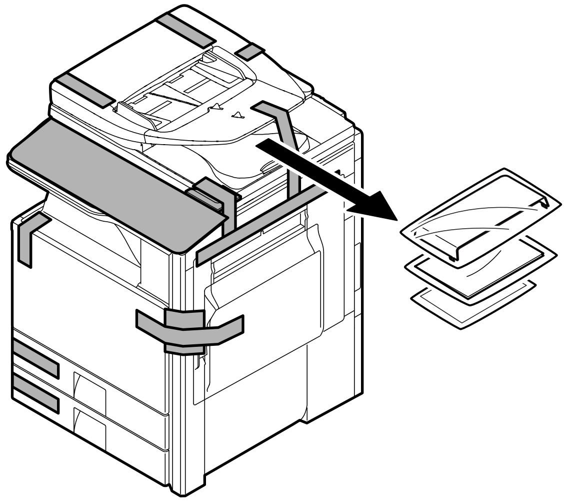
A. Unpacking procedure

1) Remove the PP band.
2) Remove the internal packing pads with the machine.

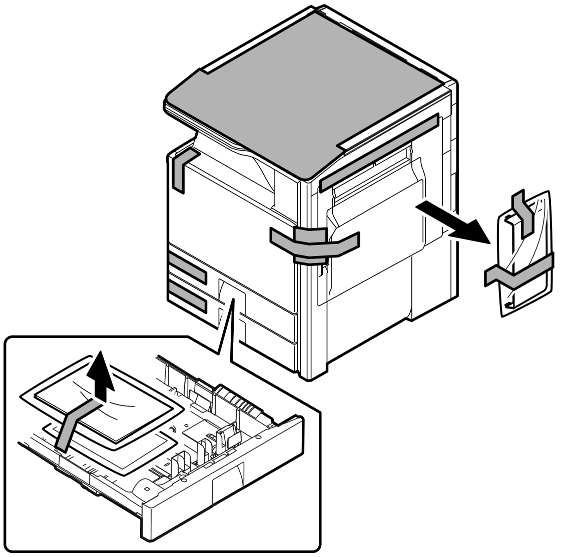


B. Removal of the fixing tape, protection material and parts packed together

- MX-M283N/M363N/M363U/M453N/M453U/M503N/M503U



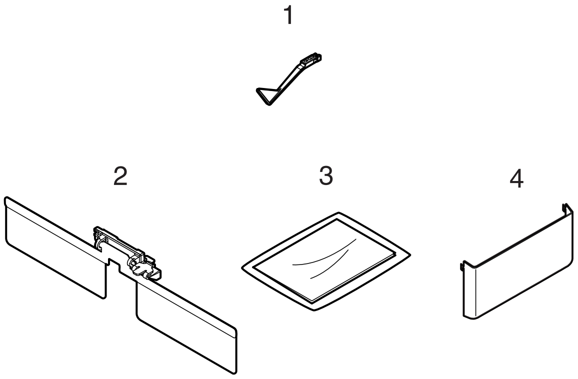
- MX-M282N/M362N/M452N/M502N



C. Check the parts packed together

1) Check that all the parts are in the package.

* Expect Europe.



NO.	Parts name	Quantity
1	Paper exit full detection actuator	1
2	Paper holding plate unit	1
3	Operation manual	1
4	Operation manual pocket	1

4. Installation

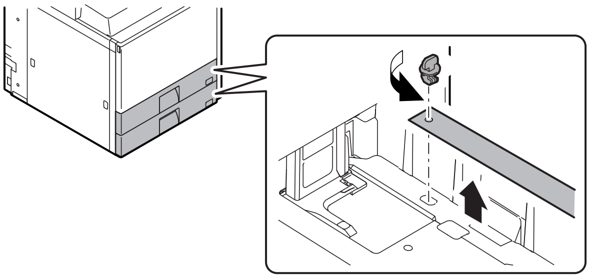
<Note before installation>

* When connecting the main unit with the optional STAND/1 X 500 SHEET PAPER DRAWER (MX-DEX8) or STAND/2 X 500 SHEET PAPER DRAWER (MX-DEX9), first unpack and install the MX-DEX8 or MX-DEX9; then unpack the main unit and securely place the main unit on the MX-DEX8 or MX-DEX9 before installing the main unit.

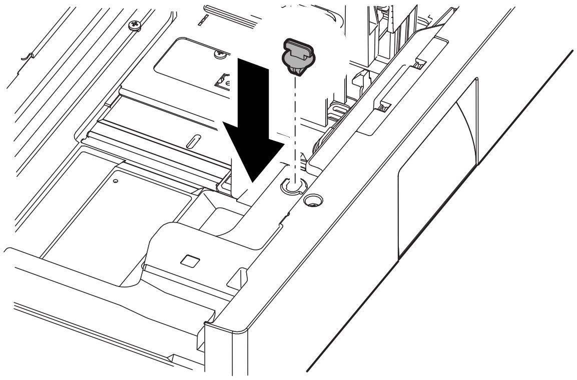
A. Lock release

(1) Tray rotation plate lock release

1) Pull out the tray, and remove the rotation plate fixing material and the tray note label.

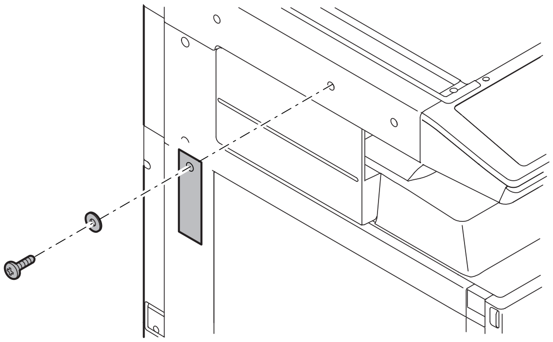


2) Attach the removed fixing material to the position shown in the figure for storage.

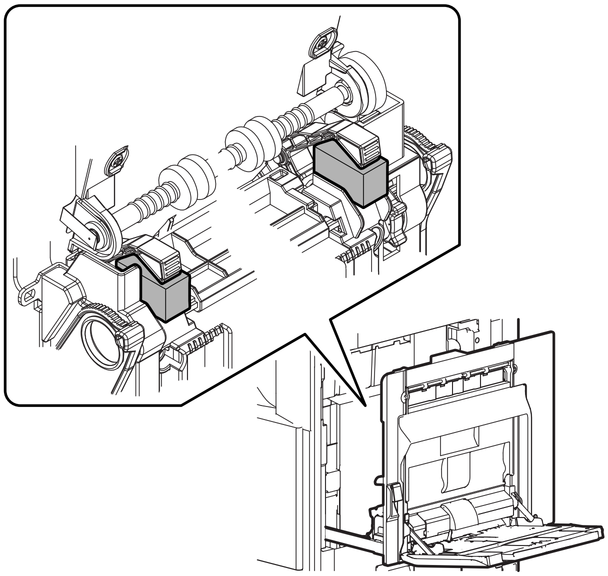


(2) Scanner (2/3 mirror unit) lock release

1) Remove the optical unit fixing screw, and remove the note label.



(3) Removal of the fusing heat roller protector



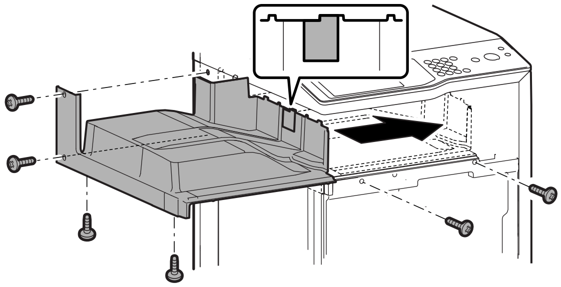
▲1

(4) Install the paper exit cover unit

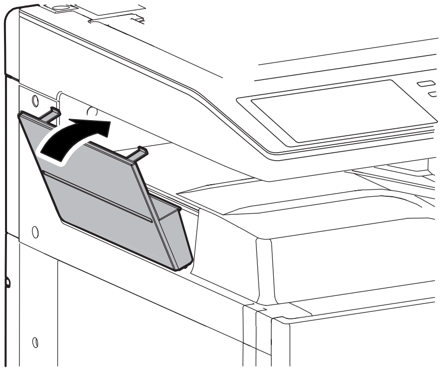
* Europe only. For except Europe, progress to the procedure of B.

* If the MX-FNX9 (Inner Finisher) or the MX-RBX3 (Interface Unit) is installed when installing the main unit, do not install the paper holding plate unit and the paper exit full detection actuator.

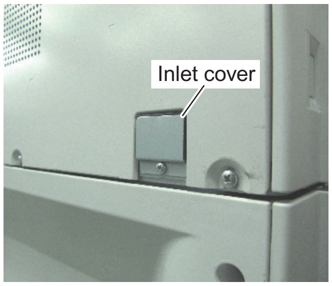
1) Install the paper exit tray, and fix the screw.



2) Install the paper exit tray cover.



3) Remove the screw, and remove the inlet cover.

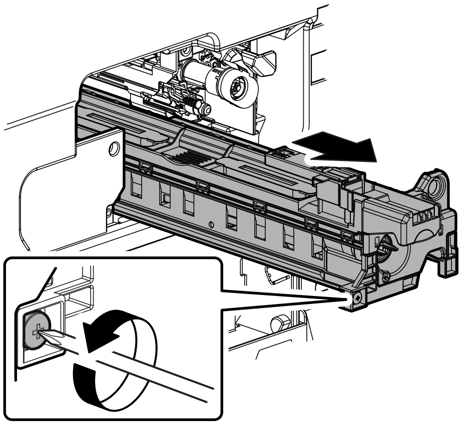


B. Developer supply

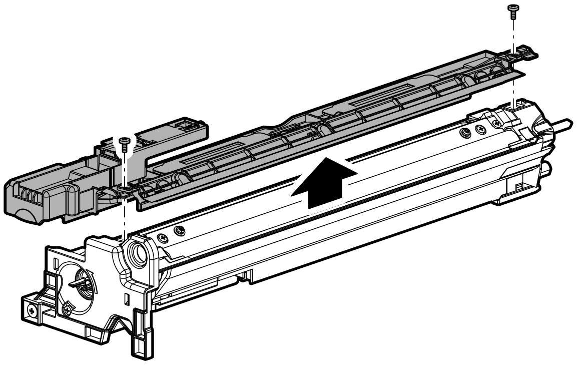
Be careful not to put fingerprints or oil dirt on the roller surface.

Do not hold the case adjacent to the DV roller strongly.

1) Open the front cabinet, and remove the waste toner box.
2) Remove the fixing screw of the developing unit, and pull out the developing unit.

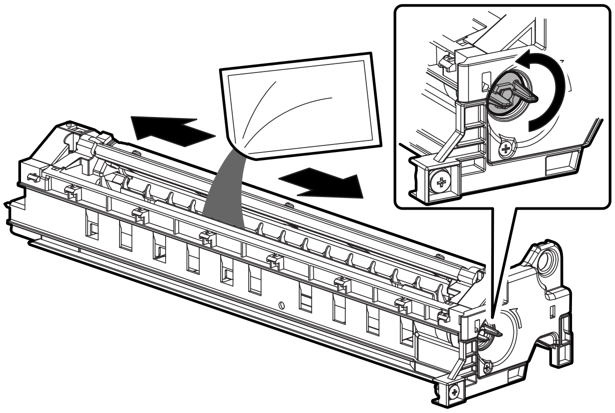


3) Remove two screws. Remove the DV cover.



4) While supplying developer from the developer supply port of the developing unit, turn the MC gear counterclockwise by using long-nose pliers to supply all developer to the developing unit.

   * Before opening the developer bag, shake the bag to mix toner and developer in the bag, and then supply developer to the developing unit.



5) Attach the DV cover to the machine.

   * Check to confirm that the pawl is securely engaged.

6) Insert the developing unit into the machine, and fix it with the blue screw.
7) Install the waste toner box.

C. Toner density reference control level setting

1) Insert the power plug into a power outlet. With the front cabinet open, turn ON the power switch of the machine and the power switch on the operation panel.
2) With the front cabinet open, enter SIM 25-2.

   WARNING: Do not install the toner cartridge before completing the Toner density reference control level setting (SIM 25-2).
3) Close the front cabinet.
4) After completion of the adjustment of the toner density control reference value, insert the toner cartridge.
5) When [EXECUTE] key is pressed, it is highlighted. The developing roller rotates, and the toner density sensor detects toner density, and the output value is displayed.

   The above operation is executed for 3 minutes, and the average value of the toner density sensor detection level is set (saved) as the reference toner density control value.

   When the reference toner density control adjustment operation is completed, [EXECUTE] key returns to normal from highlight. This makes known about whether the adjustment operation is completed or not.
6) Press the CA key to exit the simulation.

   NOTE:
   If the operation is interrupted within 3 minutes, the adjustment result is not reflected.

   When [EXECUTE] key is pressed during rotation, the operation is stopped and [EXECUTE] key returns to the normal display.

   If [EE-EU] or [EE-EL] is displayed, setting of the reference toner density control value is not completed normally.

Error display	Content	Details of content
EE-EL	EL abnormality	Sensor output level less than 67, or sensor control voltage level over 197
EE-EU	EU abnormality	Sensor output level over 154, or sensor control voltage level less than 49
EE-EC	EU abnormality	Sensor output level less than 95, or sensor control voltage level over 105

NOTE: When not replacing the developer, do not execute SIM25-2.

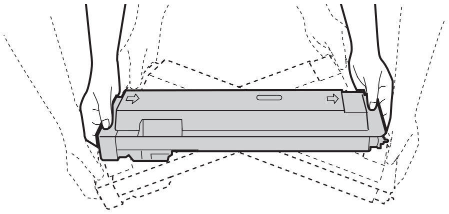
Only execute SIM 25-2 when replacing the Developer.

SIM 25-2 should only be run immediately after installing new DV material.

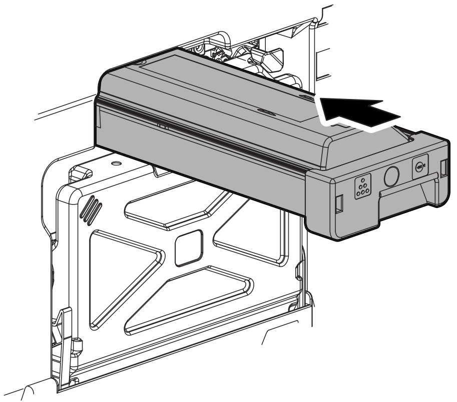
Toner Concentration Reference Control Level Setting will be incorrect if SIM 25-2 is performed at any other time.

D. Install toner cartridge

1) Shake the toner cartridge several times.



2) Open the front cabinet, and insert the toner cartridge slowly. △1

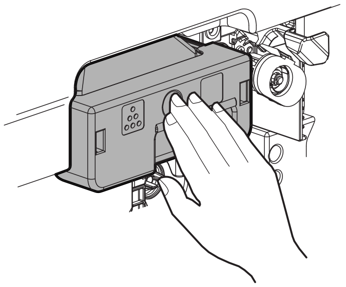


* Do not forcibly insert the toner cartridge.

Keep holding the cartridge and completely insert it.

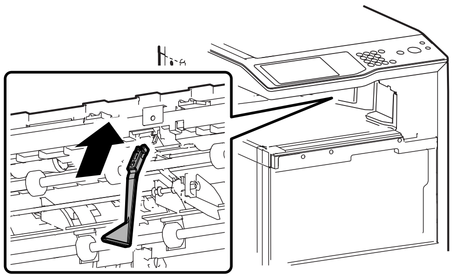
* When the machine is transported with the developing unit removed, be sure to remove the toner cartridge. (If not, toner may be clogged.)

3) Insert the cartridge securely until it locks.

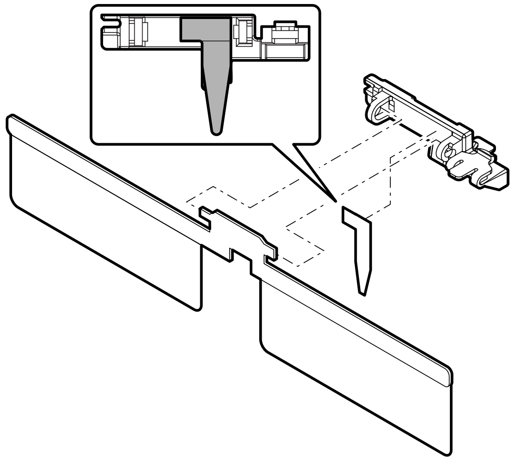


E. Installation of the paper holding plate unit △1

1) Install the paper exit full detection actuator.



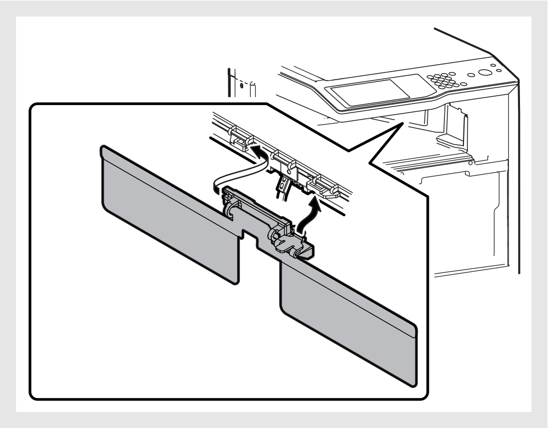
2) Install the paper fixing sheet and paper fixture to the paper fixture HCT.



3) Install the paper holding plate unit.

* If the MX-FNX9 (Inner Finisher) or the MX-RBX3 (Interface Unit) is installed when installing the main unit, do not install the paper holding plate unit and the paper exit full detection actuator.

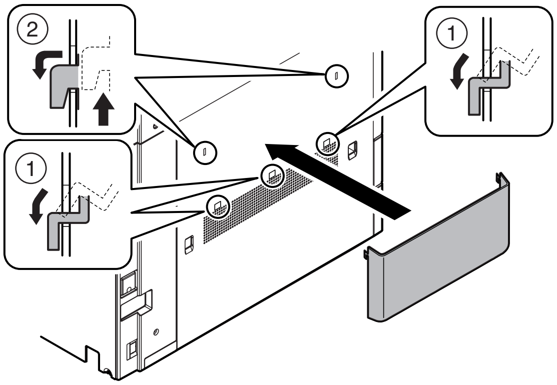
1



F. Installation of the operation manual pocket

1) Install the Operation Manual storage cover to the left side of the machine.
   - a) First, insert the pawl on the lower side of the Operation Manual pocket.
   - b) Then, lift the pawl on the upper side and insert it, and slide down to install.

* If the finisher is installed together with installation of the machine, the Operation Manual storage cover must be installed to the finisher.

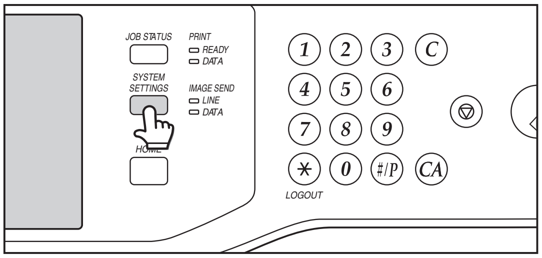


G. Tray setup

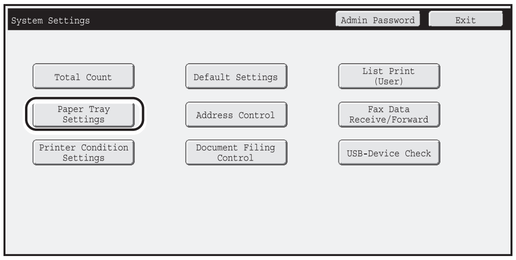
(1) Simulation setup

Change the tray setting in the "system setting" mode. If "Disabling of Tray Settings" has been enabled in the system settings (administrator), the tray settings (except for the bypass tray) cannot be configured.

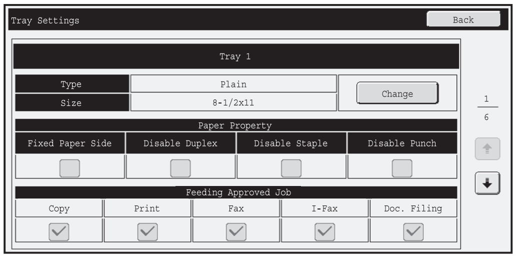
1) Press the [SYSTEM SETTINGS] key.


JOB STATUS
PRINT
READY
DATA
SYSTEM SETTINGS
IMAGE SEND
LINE
DATA
HOME
1
2
3
C
4
5
6
7
8
9
*
0
#/P
CA
LOGOUT

2) Touch the [Paper Tray Settings] key.


System Settings
Admin Password
Exit
Total Count
Default Settings
List Print (User)
Paper Tray Settings
Address Control
Fax Data Receive/Forward
Printer Condition Settings
Document Filing Control
USB-Device Check

3) Touch the [Paper Tray Settings] key to configure the settings. These settings specify the paper type, paper size, and functions allowed for each paper tray. When the [Tray Settings] key is touched, a list appears showing the trays and the current settings.


Tray Settings
Back
Tray 1
Change
1
6

Type: Plain
Size: 8-1/2x11

Paper Property

Fixed Paper Side	Disable Duplex	Disable Staple	Disable Punch
☐	☐	☐	☐

Feeding Approved Job

Copy	Print	Fax	I-Fax	Doc. Filing
☑	☑	☑	☑	☑

4) Touch the [Change] key in the above screen to change the settings. The following settings can be configured.

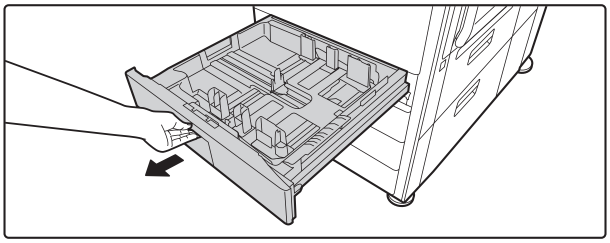
Item	Description
Type	Select the type of paper that is loaded in the tray. The paper types that can be selected vary by paper tray.
Size	Select the paper size from the list. The paper sizes that can be selected vary by tray. The sizes that can be selected may also be restricted by the paper type selected above. If the desired size does not appear in the list, select [Custom Size] and directly enter the size (only for the bypass tray).
Feeding Approved Job	Select the modes that can be used. If there is a function that you do not wish to be used with the selected tray, disable the function. When the "Type" is other than plain paper, recycled paper, colored paper, or a user type, [Fax] and [Internet Fax] cannot be selected.

(2) Tray size setup

1) Pull out the paper tray.

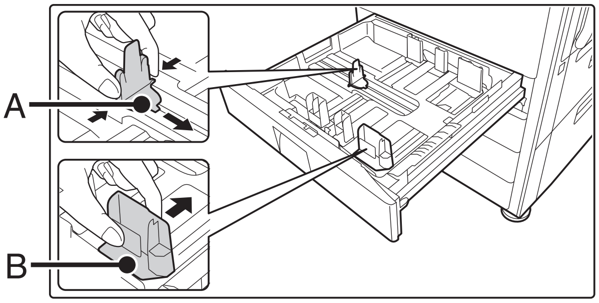
Gently pull the tray out until it stops.

If paper remains in the tray, remove it.



2) Adjust the guide plates A and B by squeezing their lock levers and sliding them to match the vertical and horizontal dimensions of the paper to be loaded.

The guide plates A and B are slidable. Slide each guide plate while squeezing its lock lever.



H. Specifications setup

Used to set the specifications with SIM26 according to the customer's request.

SIM No		Content
26	6	Used to set the destination.

To customize the following items after completion of the destination setup, change the set values.

SIM No		Content
26	2	LCC paper size setting
	3	Used to set the auditor specification mode.
	5	Used to set the count mode of the total counter and the maintenance counter.
	18	Used to set YES/NO of the toner save mode (Only in UK and Japan versions) * For other destination versions, this setup is made by the user program.
	52	Used to set YES/NO of counting when non-print paper is passed through each counter.
	53	Used to set YES/NO of user calibration permission.
	65	Used to set the limit number of sheets for stapling.

I. Image quality check

(1) Copy density and gradation check

(Note)

Before checking the copy density and gradation, be sure to execute the following jobs.

* Execute the high density image correction (Process correction) forcibly. (SIM 44-6)

* Execute the half-tone image correction forcibly. (SIM 44-26)

(Method)

Make a copy of the gray test chart (UKOG-0162FCZZ), and check that it is proper.

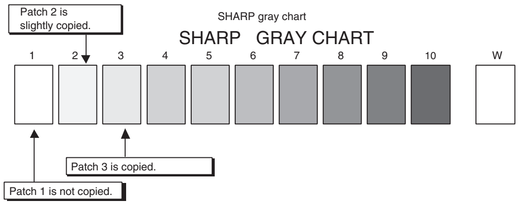
Note for checking the copy mode density

To check the density, use the gray test chart (UKOG-0162FCZZ). Set the copy density level to "Manual 3" in the Text/Printed Photo mode (Manual).

In addition, all the picture quality adjustment settings in the user adjustment mode must be set to the default (center).

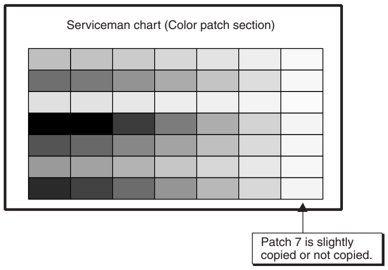
[Check with the gray test chart (UKOG-0162FCZZ)]

In the copy density check with the gray test chart, check to insure the following conditions.


Patch 2 is slightly copied.
SHARP gray chart
SHARP GRAY CHART
1
2
3
4
5
6
7
8
9
10
W
Patch 3 is copied.
Patch 1 is not copied.

[Check with the servicing color test chart (UKOG-0317FCZZ/UKOG-0317FC11 or UKOG-0326FCZZ/UKOG-0326FC11)]

Check to confirm that it is in the conditions shown below.


Serviceman chart (Color patch section)
Patch 7 is slightly copied or not copied.

(2) Printer density and gradation check

If no printer option is installed to the U model, the following procedures are not required. (SIM64-5 does not operate.)

(Note)

Before checking the printer density and gradation, be sure to execute the following jobs.

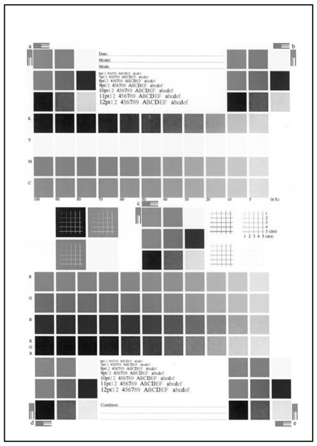
* Execute the high density image correction (Process correction) forcibly. (SIM 44-6)

* Execute the half-tone image correction forcibly. (SIM 44-26)

(Method 1)

Execute SIM 64-5 to print the print test pattern.

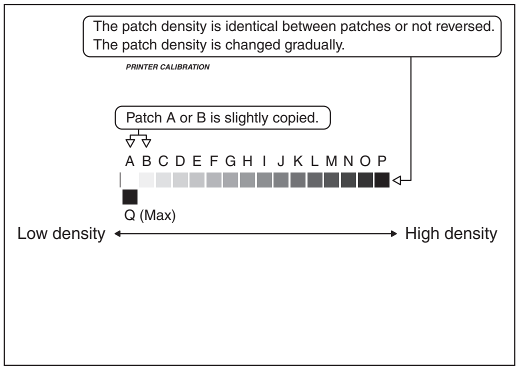
Set each set value to the default and press [EXECUTE] key. The print test pattern is printed.



The print density must be changed gradually from the lighter level to the darker level. The density changing direction must not be reversed.

(Method 2)

Execute SIM 67-25 to print the adjustment check pattern.


The patch density is identical between patches or not reversed.
The patch density is changed gradually.
PRINTER CALIBRATION
Patch A or B is slightly copied.
A B C D E F G H I J K L M N O P
Q (Max)
Low density
High density

The print density must be changed gradually from the lighter level to the darker level. The density changing direction must not be reversed.

Patch A or B is slightly copied.

J. Function and operation check

Check that the following operations are normal.

Check item list		Equipped condition
Key-in (operation panel)		
Display (operation panel)		
Paper feed operation	Hand feed	
	Main unit paper tray	
	Desk unit paper feed tray	With the desk unit installed
Paper size detection		
Originals size detection	Original table mode	
	DSPF mode	
	RSPF mode	
DSPF/RSPF operation / two sided copy	S-S mode	
	D-S mode	
	S-D mode	
	D-D mode	
Bookbinding operation		When the finisher is installed
Stapling operation		When the finisher is installed
Grouping operation		When the finisher is installed
Sorting operation		When the finisher is installed
Paper exit operation		When the exit tray unit (MX-TRX2) is installed

K. Setup and adjustment data recording

Print the various setup data and the adjustment data (list) with SIM22-6 and keep the data.

- In case of a memory trouble, if the data are not kept, all the adjustments must be made again.
- If the data are kept, the setup values and the adjustment values can be entered without adjustments, shortening the servicing time.

L. Necessary works before moving the machine

1) If the following options are installed, remove all of them from the machine.
    - Finisher
    - Large capacity tray
2) Remove the following consumable parts from the machine.
    - Paper
    - Toner cartridges
    - Development cartridge
3) Lock the following sections.
    - Scanner (Optical section)
    - Paper cassette lift plate

NOTE: Since the hard disk drive is built in the machine, use care not to exert vibrations or shocks to the machine when in transit.

M. Remote operation panel function Enable setting

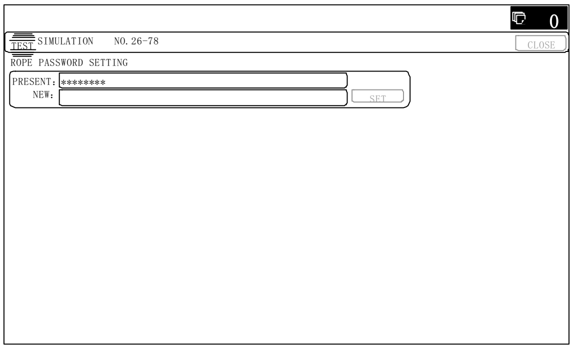
(1) General

To use the remote operation panel function, the password for the remote operation panel function must be entered on the password input menu displayed on the VNC boot screen. Note that, therefore, the password must be set in advance to use the remote operation panel function.

Let the user make the password, and use SIM26-78 to set it.

(2) Remote operation panel function password setting procedures

1) Enter the SIM26-78 mode.



SIMULATION NO.26-78

ROPE PASSWORD SETTING

PRESENT: ********

NEW:

2) Enter the password with 10-key. (Within 5 - 8 digits)

    The entered password is displayed on the column of "NEW." To modify the entered password, use clear key to delete the password digit by digit.
3) Press [SET] key, and the password is set.

N. USB PORT selection

There are two USB ports; one on the front frame side and the other on the rear frame side. Only one of them can be used at a time. Do not connect the two USB ports simultaneously.

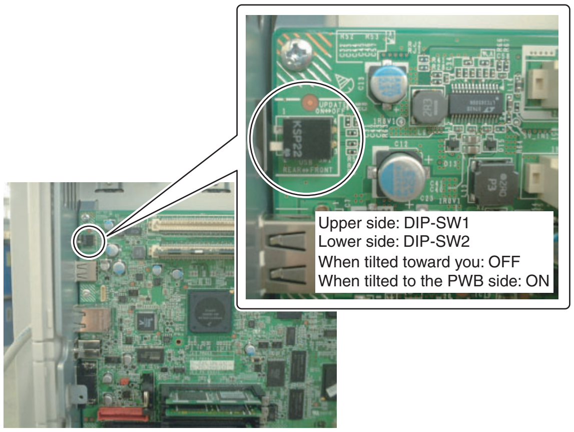
When shipping, the port on the front frame side is valid and the port on the rear frame side is invalid. When using the USB port, be careful of the total current consumption not to exceed 500mA.

The valid port can be switched by changing the setting of the MFP PWB DIP SW.

Select the valid USB port according to the user's request.

* The default setting for SW1/SW2 is OFF.

MFP PWB DIP SW		USB I/F	
SW 1	SW 2	Port on the front frame side	Port on the rear frame side
OFF	OFF	Valid	Invalid
OFF	ON	Invalid	Valid



Upper side: DIP-SW1
Lower side: DIP-SW2
When tilted toward you: OFF
When tilted to the PWB side: ON

NOTE: For the machine which is provided with a keyboard, either one of two USB ports can be used at a time. However, both DIP SW1's must be set to OFF.

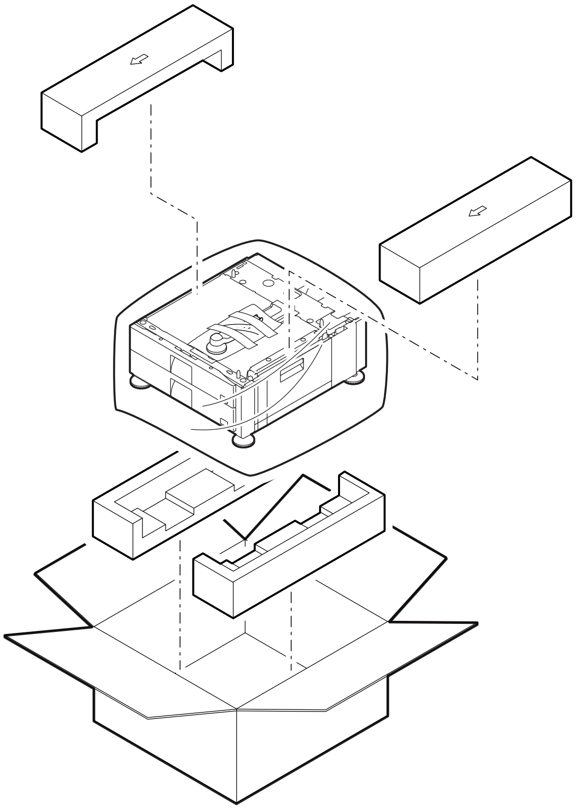
Note that, if DIP SW1 is set to ON, the machine is set to the CN update mode.

NOTE: After completion of option installation, revise all the firmware to the latest version.

[2] MX-DEX8/DEX9

1. Unpacking

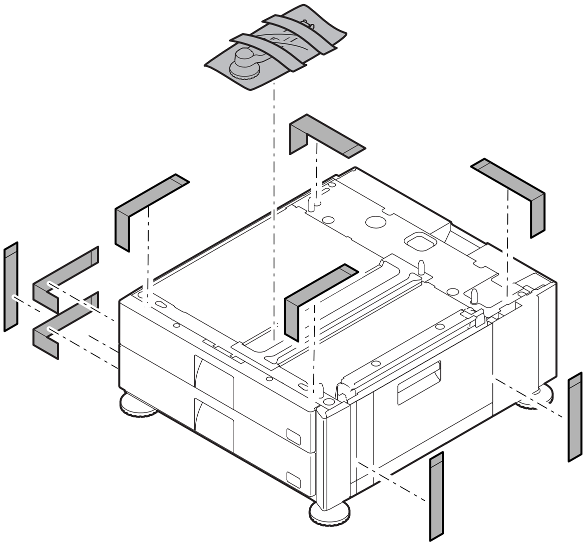
A. Removal of the desk unit



B. Removal of the fixing material and packing parts

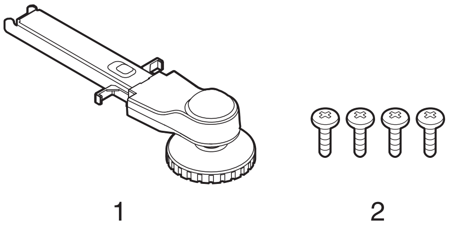
* If the connector is removed first, it may be pinched in the installing procedures. Therefore, keep it packed when unpacking the package, and unpack it when connecting the connector to the machine.

1) Remove the fixing material and packing parts.



C. Check the packed items

1) Check that all the items are included in the package.



No.	Names of bundles	Quantity
1	Right adjuster	1
2	Fixing screws (M4 x 8)	4

2. Installation

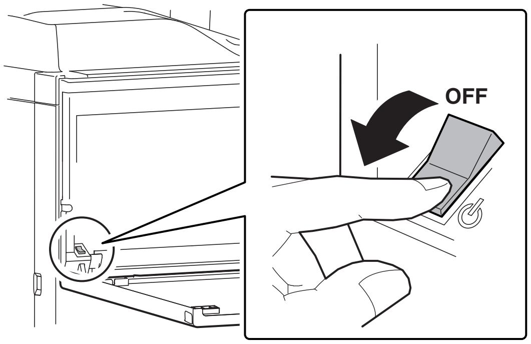
<Note before installation>

* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

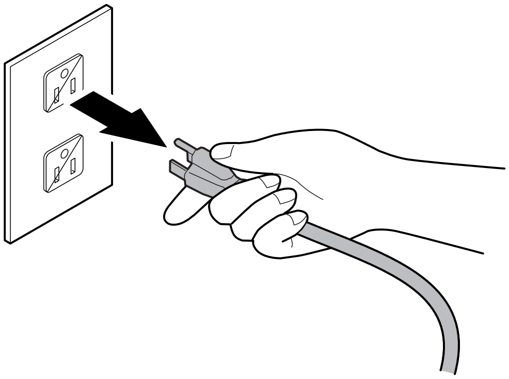
A. Turn off the power of the main unit

1) Turn OFF the power switch on the operation panel.

2) Open the front cabinet.
Turn OFF the power switch in the front cabinet of the main unit.

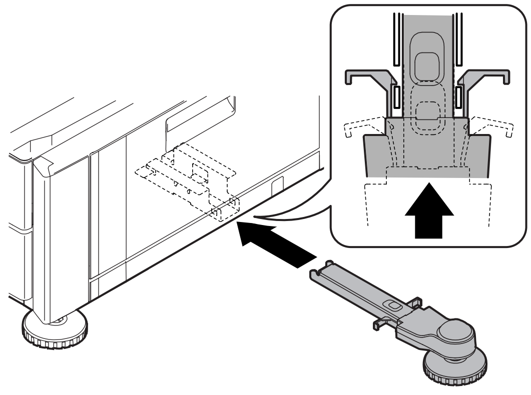


3) Disconnect the power plug of the main unit from the power outlet.

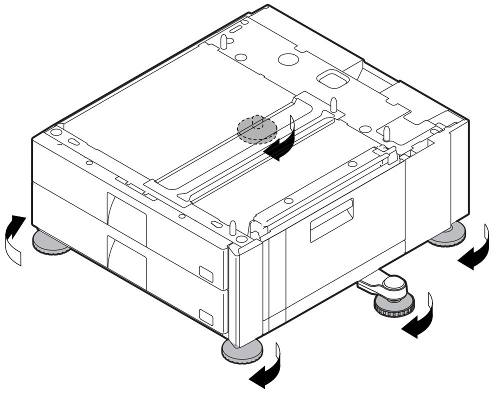


B. Installation of the adjuster

1) Install the right adjuster (package part No. 1) to the desk unit.

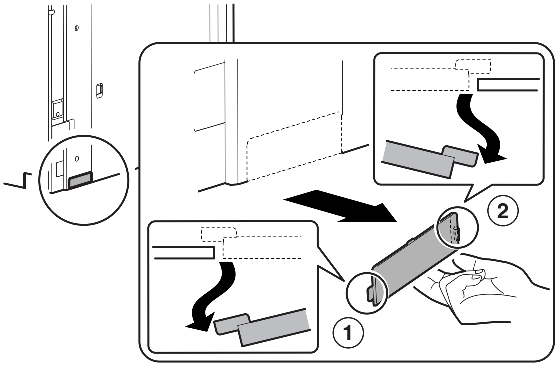


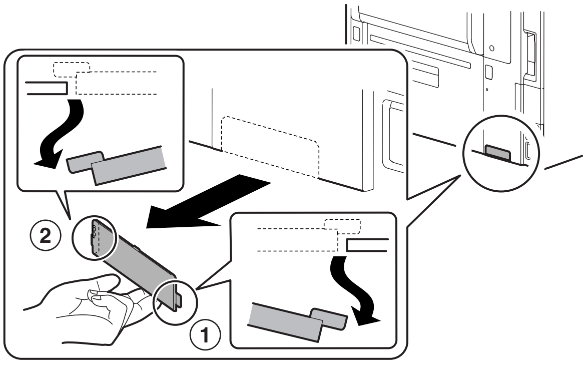
2) Turn each adjuster to fix the desk unit.



C. Connection of the main unit and the desk unit

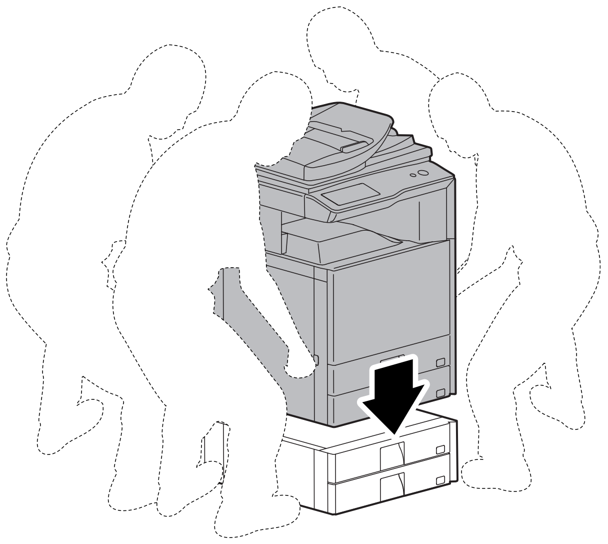
1) Remove the connection plate covers of the both sides of the main unit.



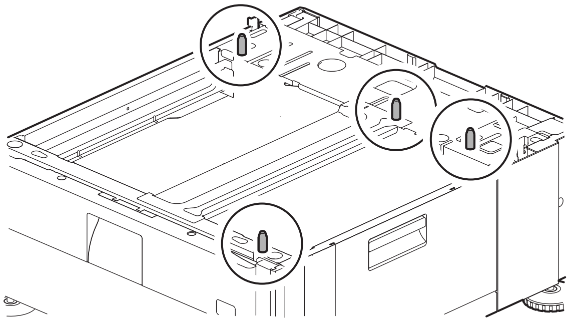


2) Put the main unit on the desk unit.

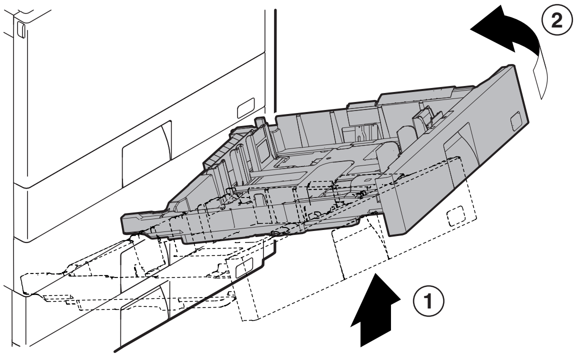
* Use man power of four persons or more to lift the main unit.



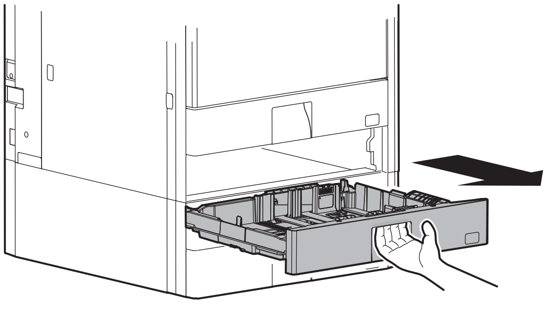
* Place the main unit on the desk unit slowly by fitting the external lines. Check to insure that the positioning pin on the top of the desk unit is securely engaged in the positioning groove of the main unit.



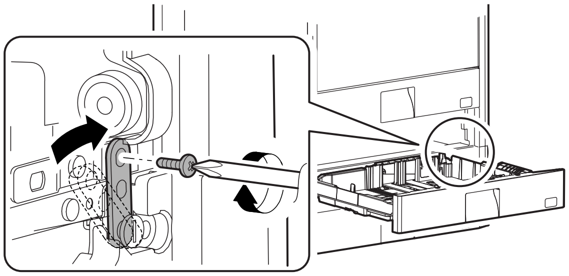
3) Remove the No. 2 paper feed tray.

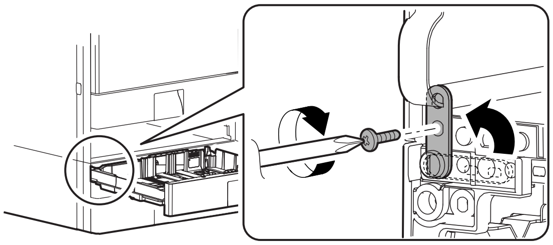


4) Pull out the No. 3 paper feed tray until it stops.

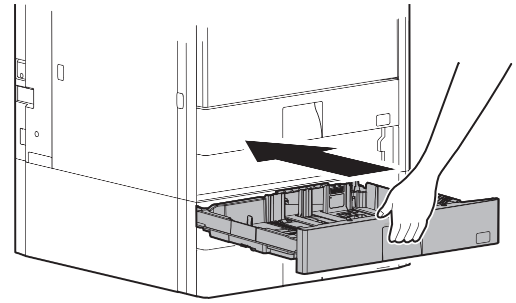


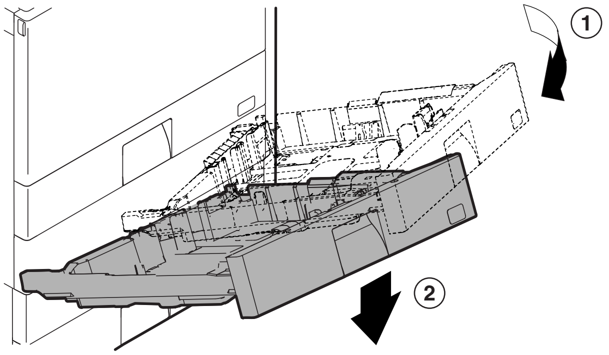
5) Lift the connection plates on the right and left of the main unit front side, and fix them with the fixing screws (package part No. 2).



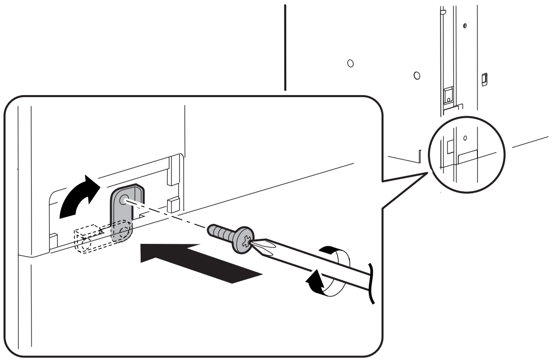


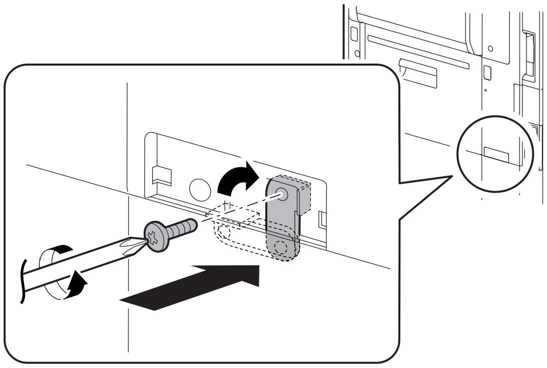
6) Replace the No. 3 and No. 2 trays to the original positions.



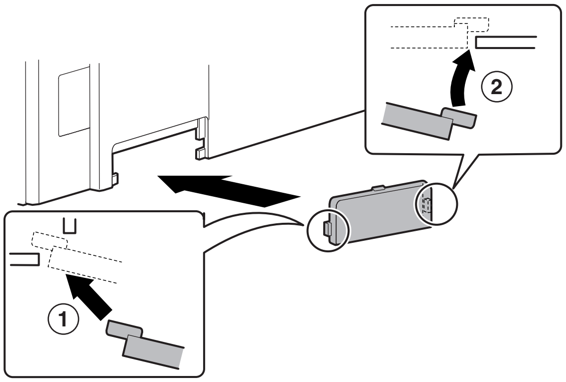


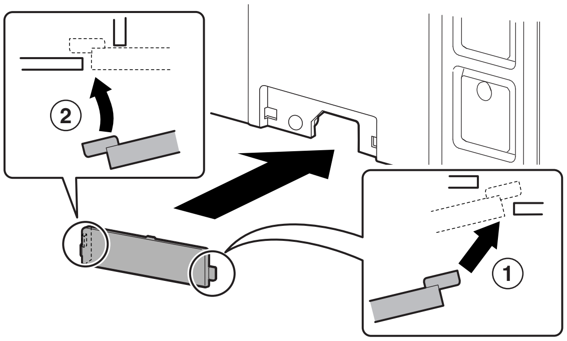
7) Lift the connection plates, and fix them with the fixing screws.





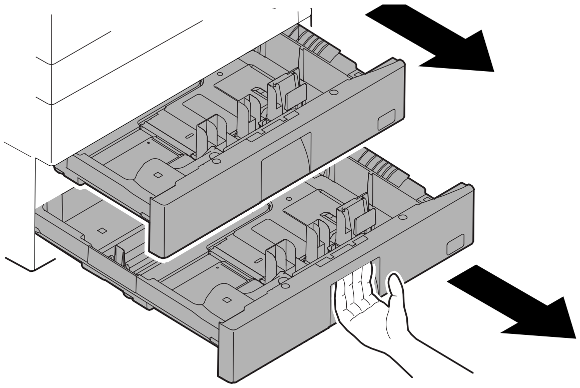
8) Install the connection plate covers.



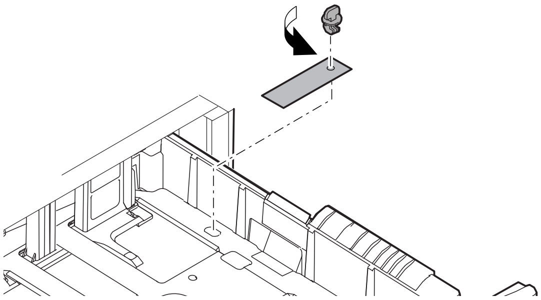


D. Release the lock

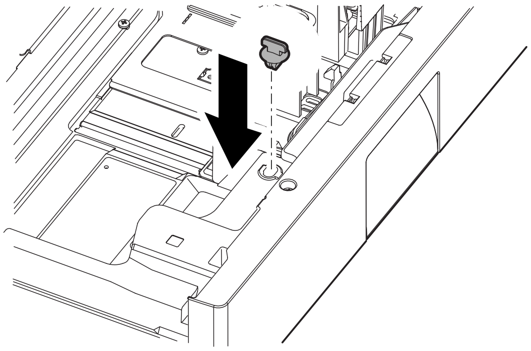
1) Pull out each tray.



2) Turn and remove the fixing material, and remove the caution sheet.

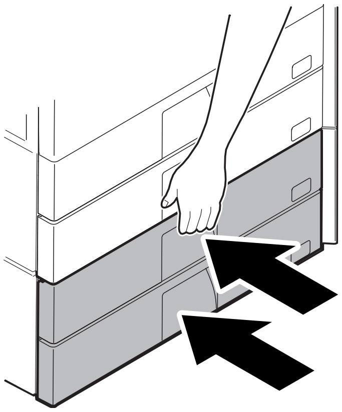


3) Attach the removed fixing material to the position shown in the figure for storage.



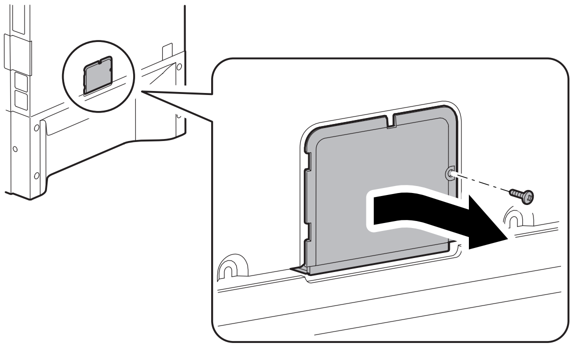
NOTE:
Before turning on the power, check to insure that the fixing material of the tray is disengaged. If the power is turned on without disengaging the fixing material, a trouble may be resulted.

4) Close the cassette which was pulled out.

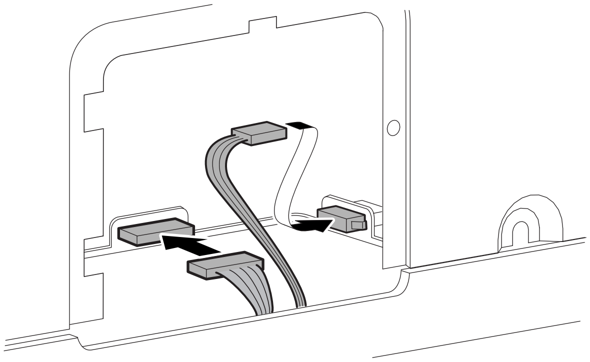


E. Connector connection

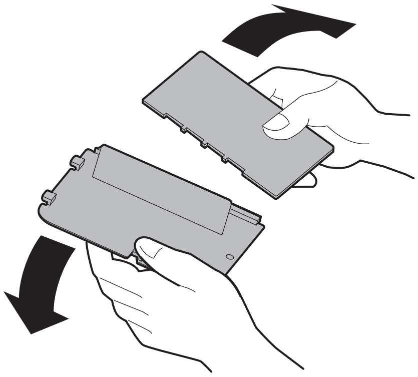
1) Remove the screw from the back of the main unit. Remove the connector cover.



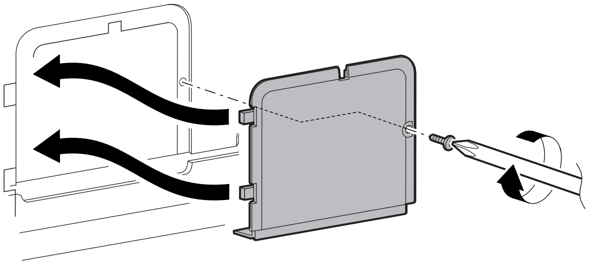
2) Connect the connector.



3) Split the removed connector cover along the perforated line.

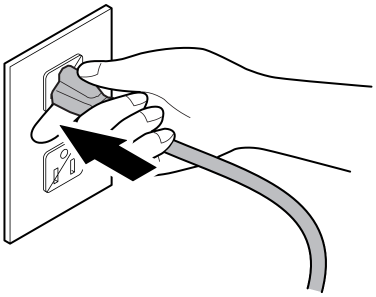


4) Install the connector cover and fix it with a screw.

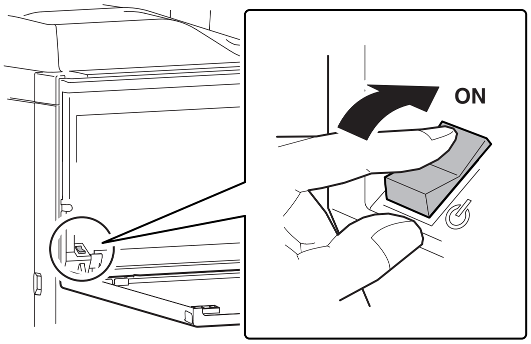


F. Turn on the power of the main unit

1) Insert the power plug of the main unit into the power outlet.



2) Open the front cabinet.
Turn ON the power switch in the front cabinet of the main unit.

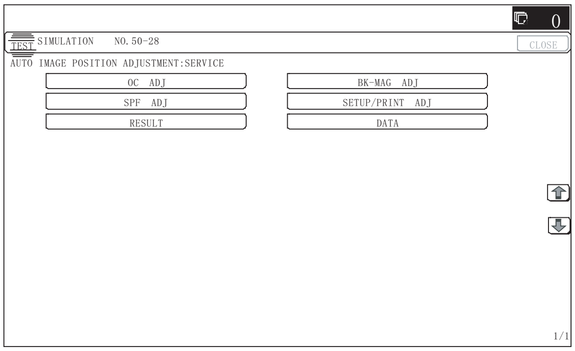


3) Turn ON the power switch on the operation panel.

* For setting the tray size, refer to "Tray size setup" (1-6).

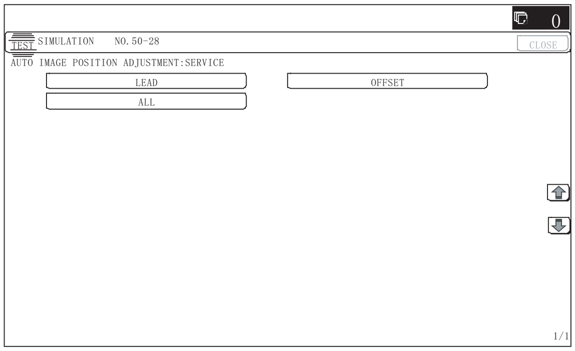
G. Image off-center adjustment

1) Enter the SIM50-28 mode.


0
TEST
SIMULATION NO.50-28
CLOSE
AUTO IMAGE POSITION ADJUSTMENT:SERVICE
OC ADJ
BK-MAG ADJ
SPF ADJ
SETUP/PRINT ADJ
RESULT
DATA
1/1

2) Select [SETUP/PRINT] ADJ with the key button.

3) Select [ALL] with the key button.


0
TEST
SIMULATION NO.50-28
CLOSE
AUTO IMAGE POSITION ADJUSTMENT:SERVICE
LEAD
OFFSET
ALL
1/1

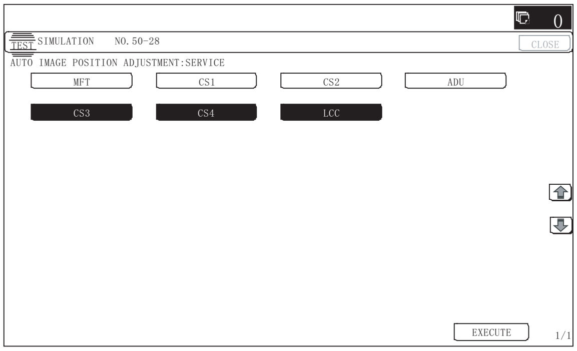
(Note)

By pressing [LEAD] or [OFFSET] button, the following items can be executed individually.

* [LEAD]: Print image lead edge image position adjustment

* [OFFSET]: Print image off-center adjustment
When [ALL] is selected, both of the above two items are executed simultaneously.

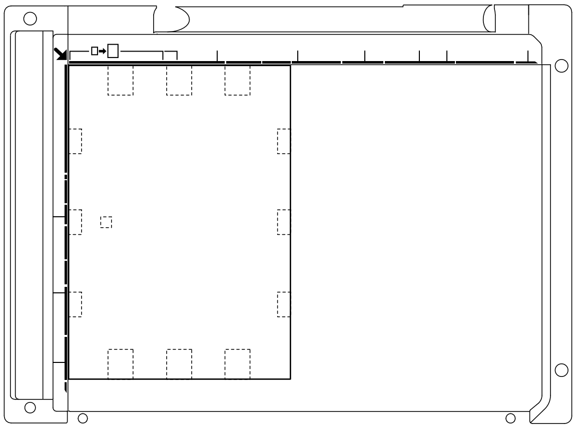
4) Select a paper feed tray to be adjusted.


0
TEST
SIMULATION NO.50-28
CLOSE
AUTO IMAGE POSITION ADJUSTMENT:SERVICE
MFT
CS1
CS2
ADU
CS3
CS4
LCC
EXECUTE
1/1

5) Press [EXECUTE] key.
The patch image (adjustment pattern) is printed out.

6) Set the adjustment pattern on the document table. (Any direction)

NOTE: Fit the adjustment pattern correctly with the document guide.



7) Press [EXECUTE] key.
The following item is automatically adjustment.

* Print image lead edge image position adjustment

* Print image off-center adjustment

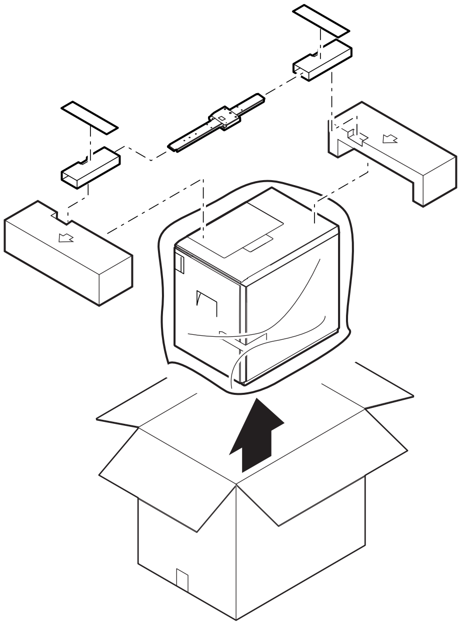
8) Press [OK] key.
The adjustment result becomes valid.

Perform procedures 4) to 7) for each paper feed tray.

[3] MX-LCX1

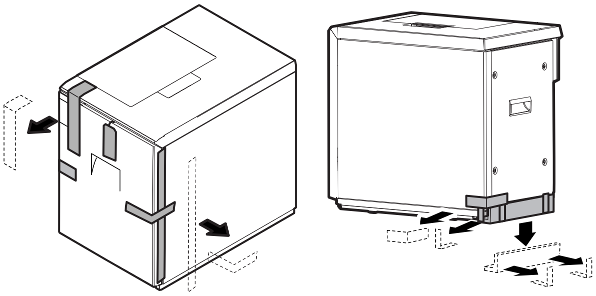
1. Unpacking

A. Removal of the large capacity tray unit

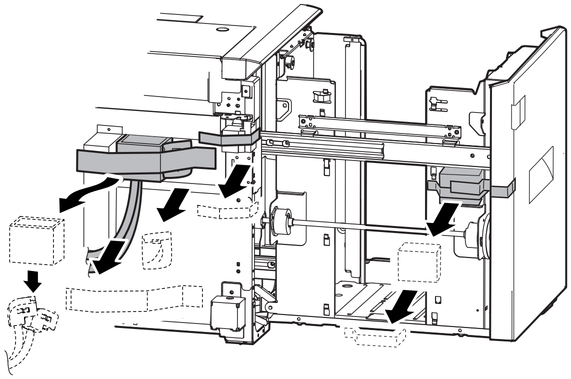


B. Removal of the fixing material and packing parts

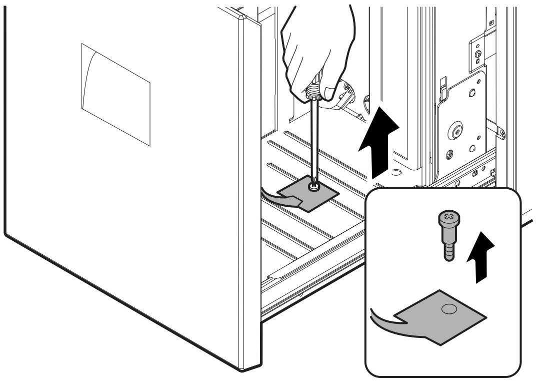
1) Remove the fixing material.



2) Remove the fixing material and the packing parts.



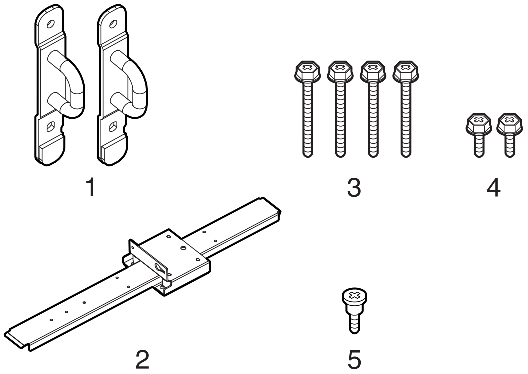
3) Remove the paper feed desk fixing screw.



NOTE:
Before turning on the power, check to insure that the fixing screw of the tray is removed. If the power is turned on without removing the fixing screw, a trouble may be resulted.

C. Check the packed items

1) Check that all the items are included in the package.



No.	Names of bundles	Quantity
1	Mounting plate upper	2
2	Connection unit	1
3	Fixing screw A (Hexagon with seat, S-tight, M4 x 35)	4
4	Fixing screw B (Hexagon with seat, S-tight, M4 x 12)	2
5	Fixing screw C (screw 4 x 8 cup)	1

2. Installation

<Note before installation>

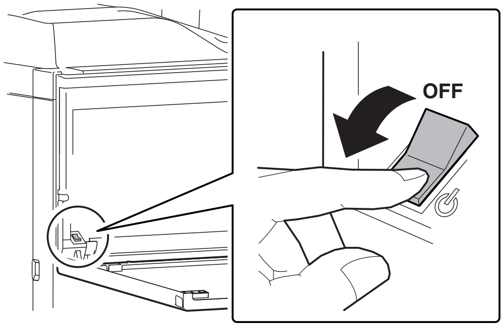
* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

A. Turn off the power of the main unit

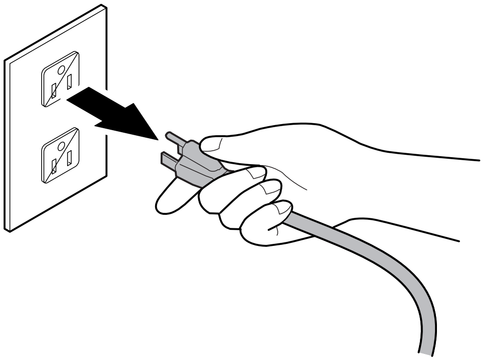
1) Turn OFF the power switch on the operation panel.

2) Open the front cabinet.

Turn OFF the power switch in the front cabinet of the main unit.



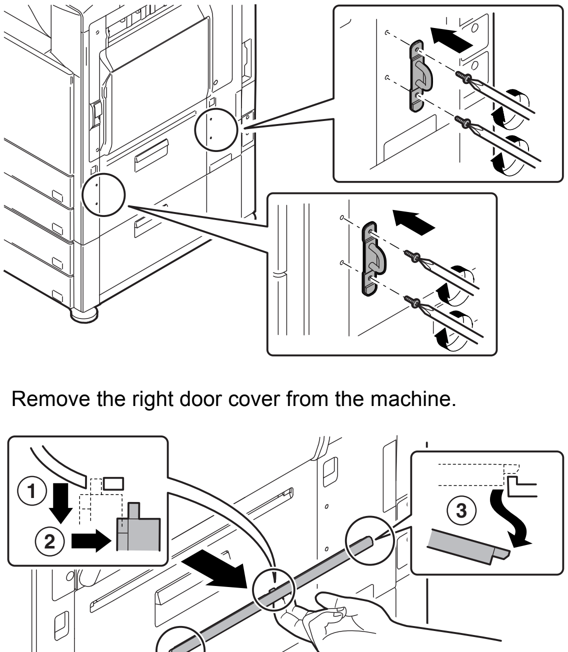
3) Disconnect the power plug of the main unit from the power outlet.



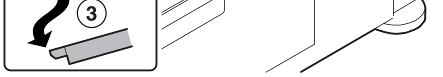
B. Connection of the main unit and the large capacity tray unit

1) Install the mounting plate upper (package part No. 1) to the right side of the main unit with the fixing screw A (package part No. 3).

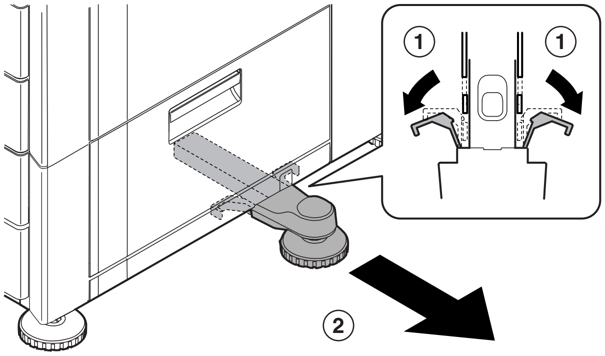
* When installing, put the rubber section of the mounting plate upper on the lower side.



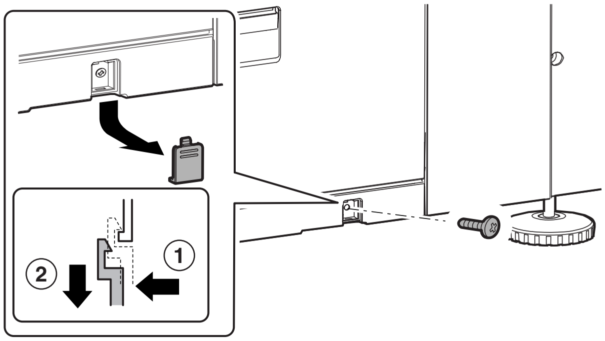
2) Remove the right door cover from the machine.



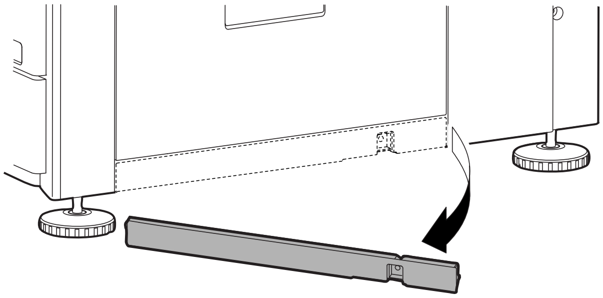
3) Disengage the pawl, and remove the right adjuster.



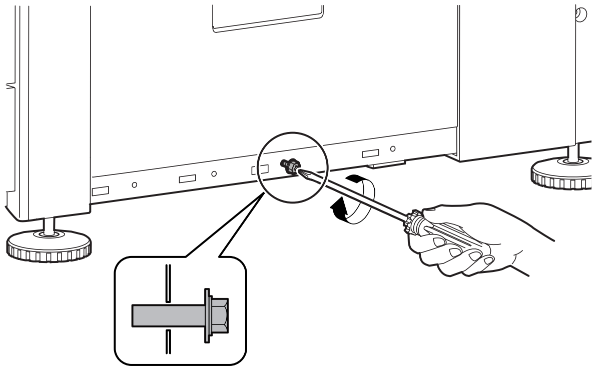
4) Remove the screw cap, and remove the screw.



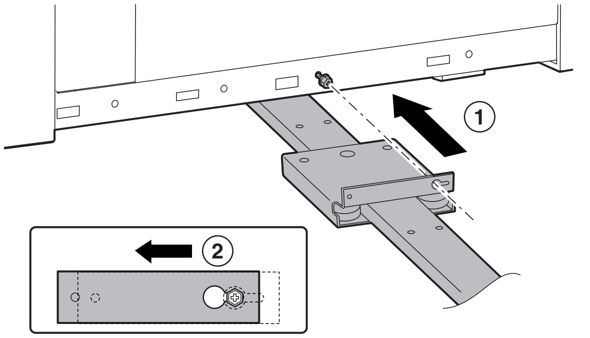
5) Remove the cover.



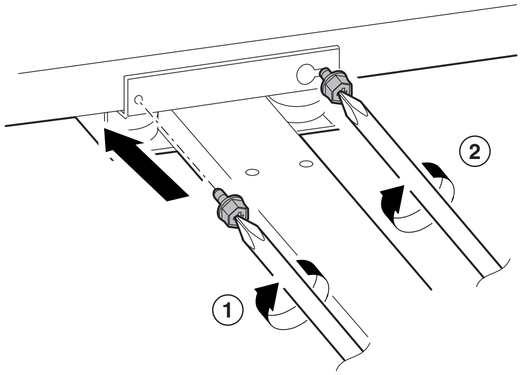
6) Temporarily fix the fixing screw B (package part No. 4) midway.



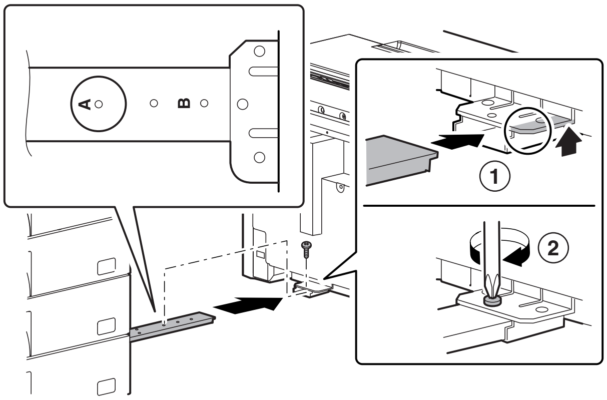
7) Insert the temporarily fixed screw B into the key hole in the connection unit (package part No. 2), and temporarily fix the connection unit.



8) Fix the other fixing screw B (package part No. 4), and tighten the temporarily fixed screw B securely.

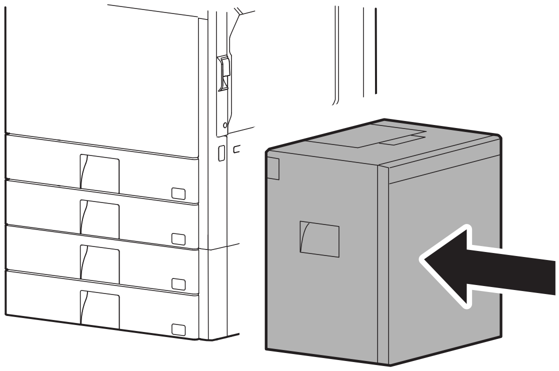


9) While lifting the section marked with ○, insert the connection unit into the large capacity tray unit, and fix the fixing screw C (package part No. 5) at the mark A on the connection unit.

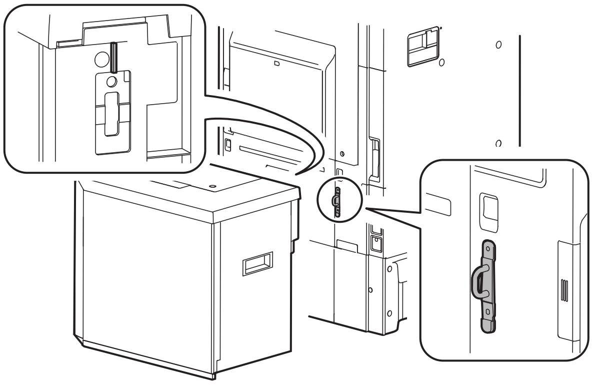


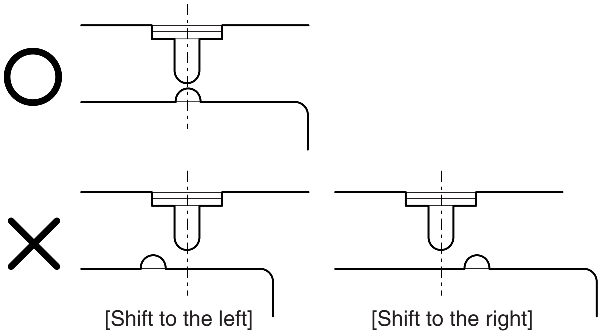
C. Height adjustment of the large capacity tray unit

1) Put the large capacity tray unit closer to the main unit.



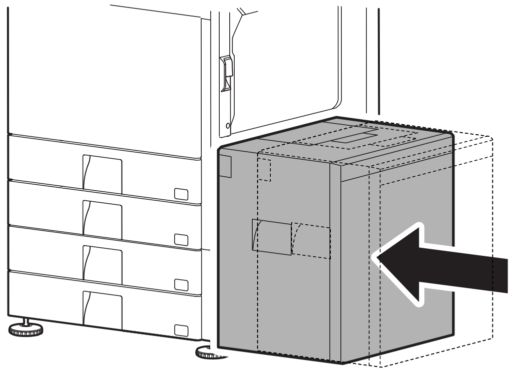
2) Check to insure that the height adjustment check rib of the large capacity tray unit and the axis line of the mounting plate upper mounted to the main unit are in the same line.




[Shift to the left] [Shift to the right]

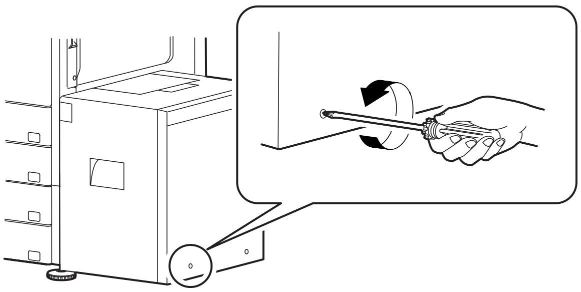
3) If the height adjustment is not required, insert the large capacity tray unit further more.

If the height adjustment is required, perform the adjustment procedures from 4).



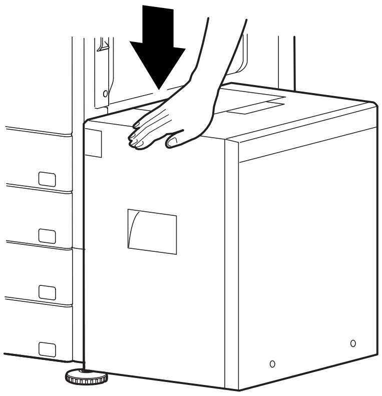
4) Loosen the adjustment screw on the F side.

* Use the adjustment screw on the front side for the adjustment. Do not touch the screw on the rear side.

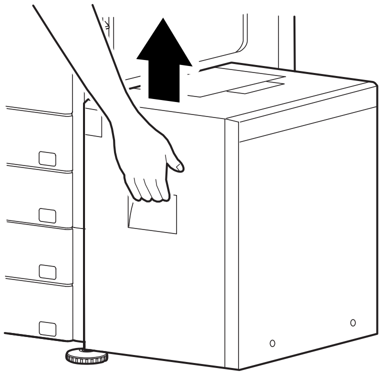


NOTE:
If the screw is loosened or removed when servicing, be sure to execute "C. Height adjustment of the large capacity tray unit" after completion of servicing.

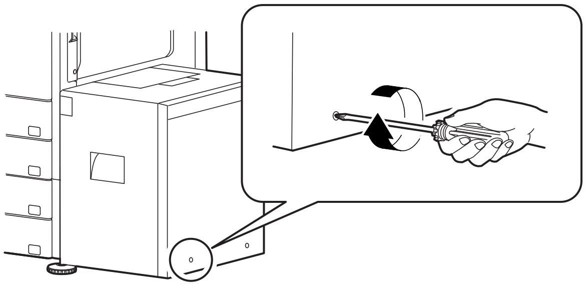
5) In the case of a shift to the right, press the front upper section and fit the height adjustment check rib so that it is in the same line with the axis line of the mounting plate upper. Insert the large capacity tray unit into the main unit.



6) In the case of a shift to the left, lift the grip so that the height adjustment check rib is in the same line with the axis line of the mounting plate upper, and insert the large capacity tray unit.

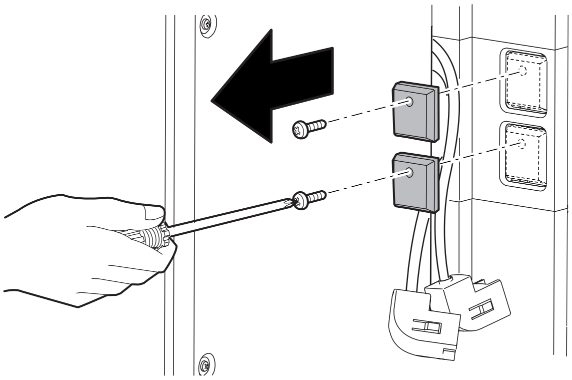


7) Tighten the loosened screw.

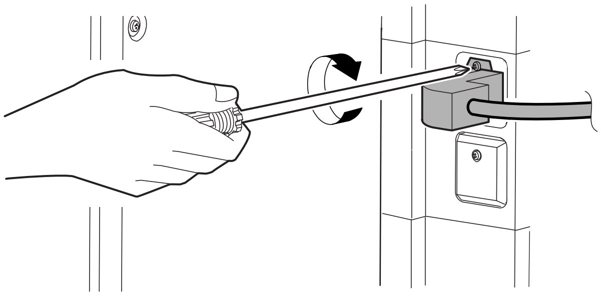


D. Connector connection

1) Remove the screw, and remove the connector cover.



2) Connect the connector, and tighten the screw.

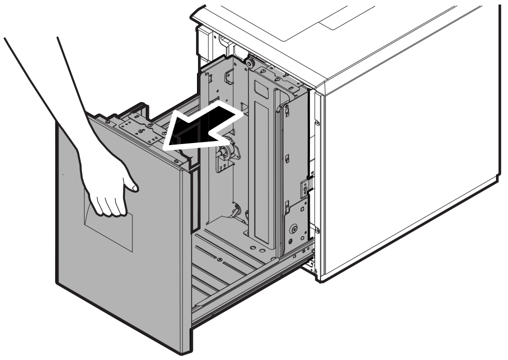


E. Paper size switch

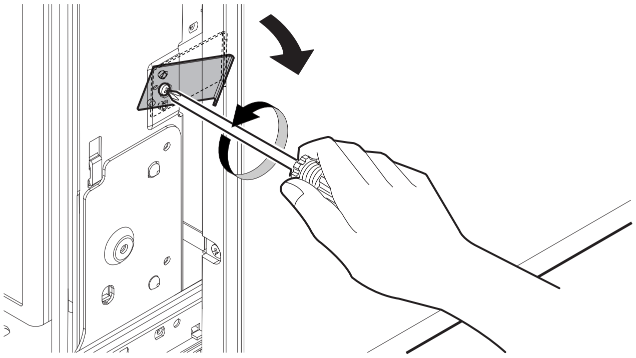
(1) Paper size switch from A4 to LT

Since the factory setting of the paper size is A4, if paper size switch is required, perform the following procedures.

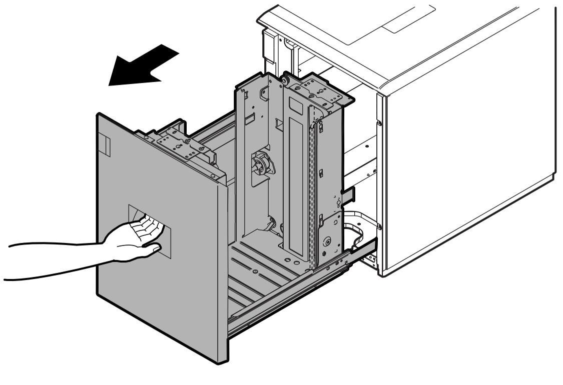
1) Slowly pull out the tray until it stops.



2) Loosen the stopper fixing screw (1 pc) on the right lower side of the tray so that the stopper does not function.

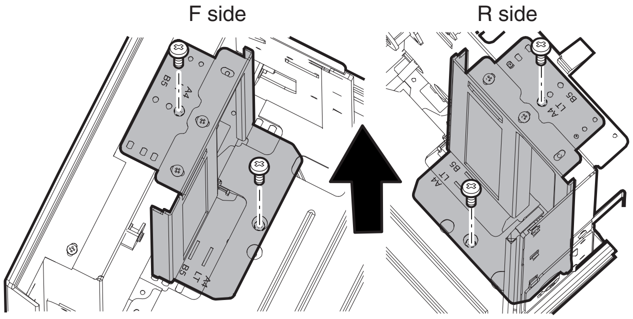


3) Pull out the tray again until it stops.

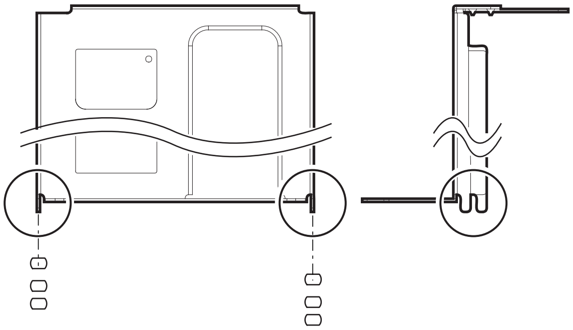


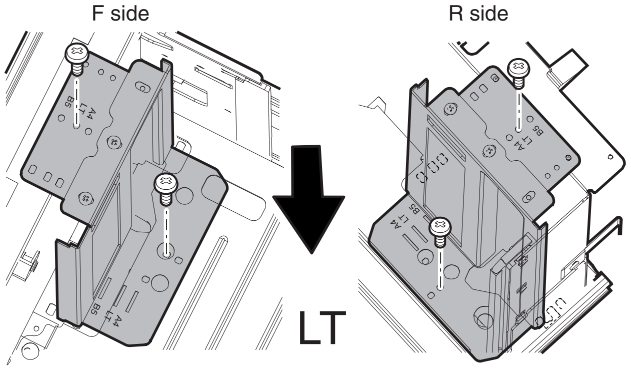
a. Side plate size switch

1) Remove four fixing screws (blue screws) which are fixing the upper and the lower sections of the side plate F and the side plate R.



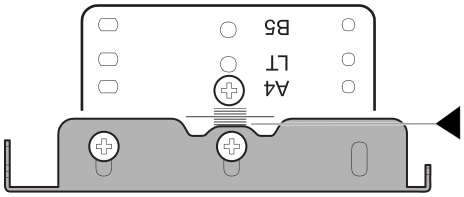
2) Adjust the mark position of the tray and the side plates in the lower section of the side plates F/R according to the desired size. Also adjust the upper section according to the desired size, and fix with the four fixing screws (blue screws).





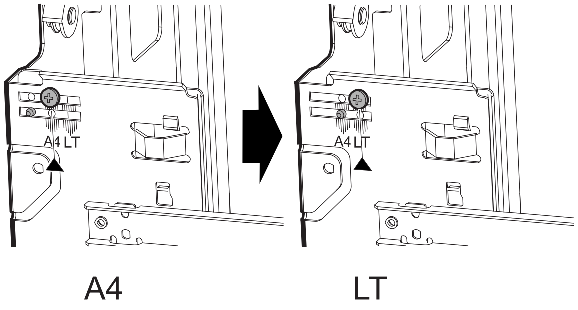
b. Auxiliary guide size switch

1) When switching the size of the side plate R, check to confirm the mark position (◀) of the side plate R and the size guide adjustment plate.



2) Loosen the fixing screw (flat screw 1pc) of the auxiliary guide.

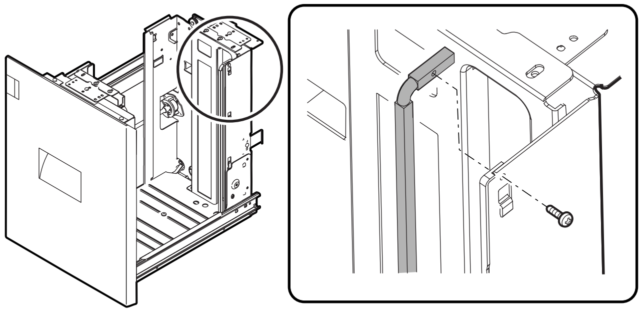
3) Set the mark position (▲) of the auxiliary guide and the cassette R to the size from A4 to LT, and fix with the fixing screw (flat screw).



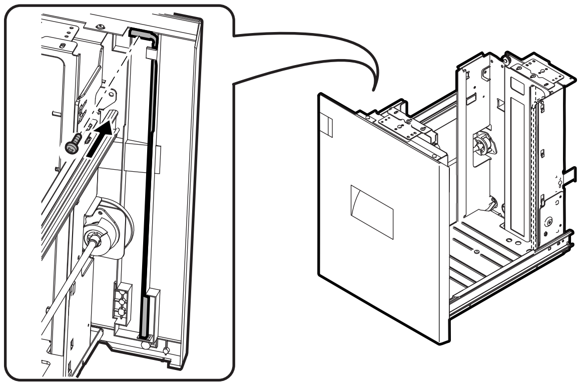
At that time, set the mark position (▲) of the auxiliary guide and the cassette R to the same scale of the mark position (◀) of the side plate R and the size guide adjustment plate confirmed in procedure 1). (If the scale of the size guide adjustment plate is at the center, set it to the center. If the size guide adjustment plate is in 1mm in the front side, set it in 1mm in the front side.)

c. Rear edge shaft switch

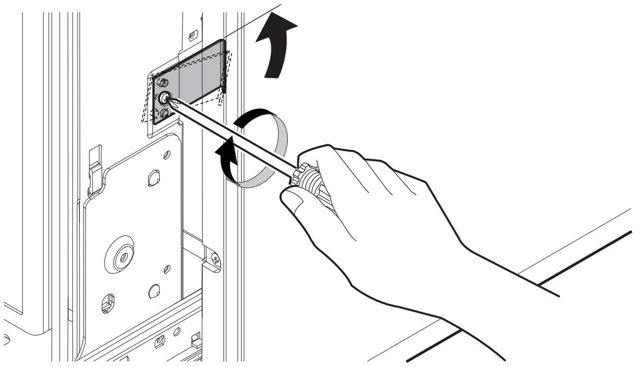
1) Remove the rear edge shift fixing screw (blue screw) which is fixing the shaft to the right side inside the tray, and remove the rear edge shaft.



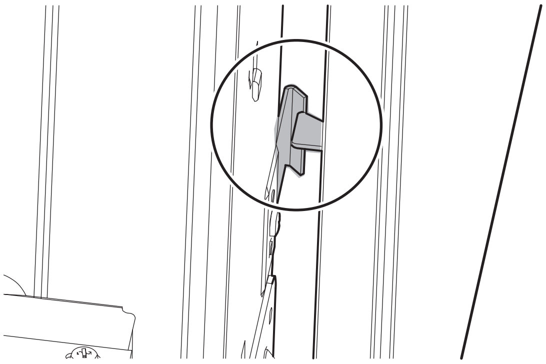
2) Tighten the removed rear edge shaft with the fixing screw (blue), and store it in the storage space inside the front cabinet.



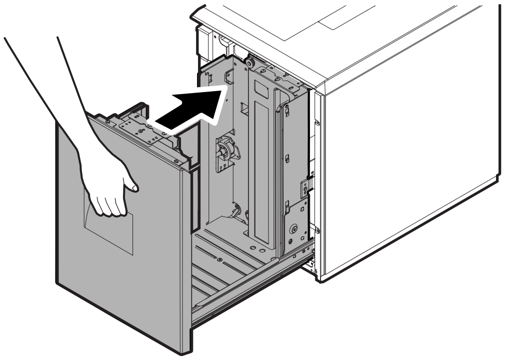
3) Slightly push the tray, restore the stopper to the original position, and fix the fixing screw.



At that time, check to insure that the stopper pawl is engaged with the stopper reception of the large capacity tray unit.



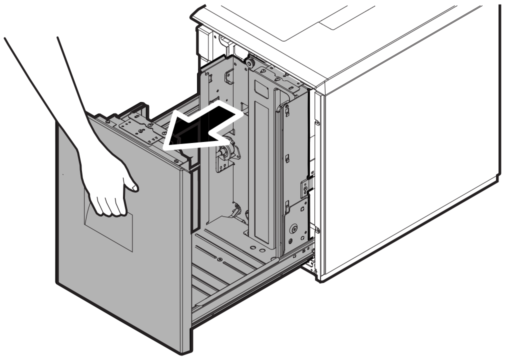
4) Slowly insert the tray to the original position.



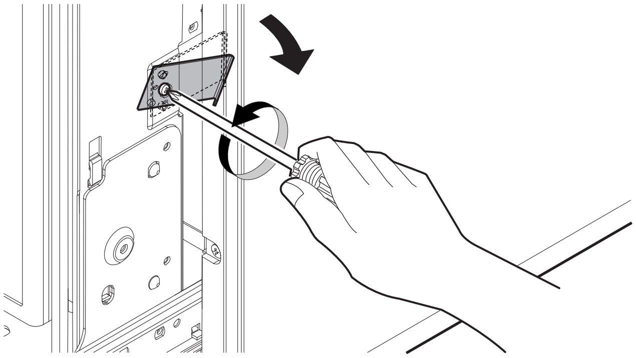
(2) Paper size switch from A4 to B5

Since the factory setting of the paper size is A4, if paper size switch is required, perform the following procedures.

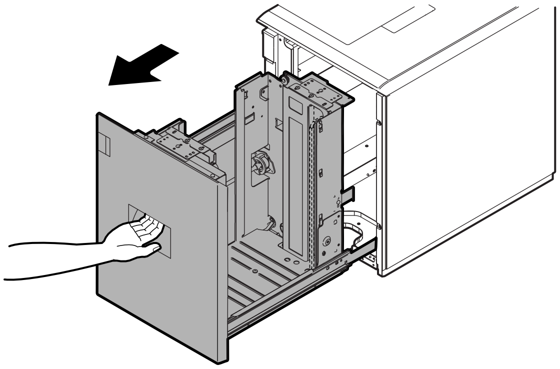
1) Slowly pull out the tray until it stops.



2) Loosen the stopper fixing screw (1 pc) on the right lower side of the tray so that the stopper does not function.

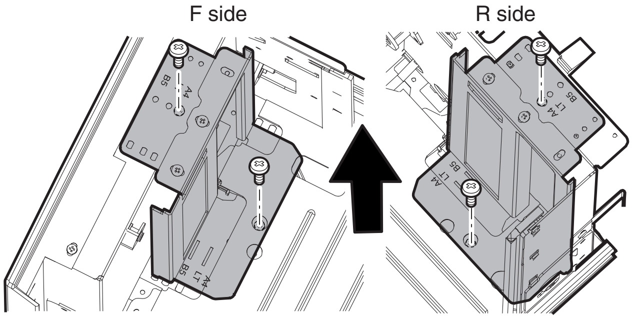


3) Pull out the tray again until it stops.

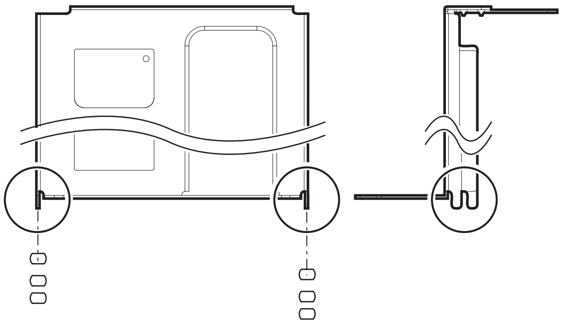


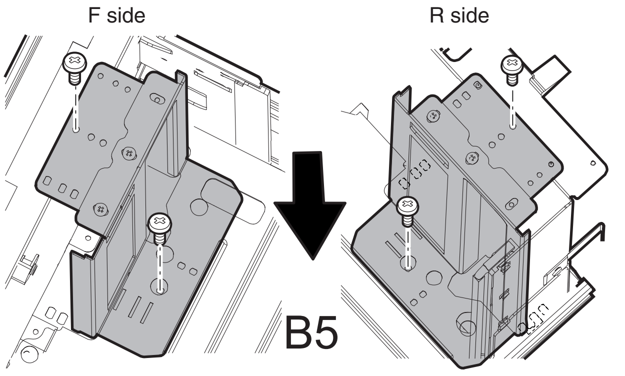
a. Side plate size switch

1) Remove four fixing screws (blue screws) which are fixing the upper and the lower sections of the side plate F and the side plate R.



2) Adjust the mark position of the tray and the side plates in the lower section of the side plates F/R according to the desired size. Also adjust the upper section according to the desired size, and fix with the four fixing screws (blue screws).



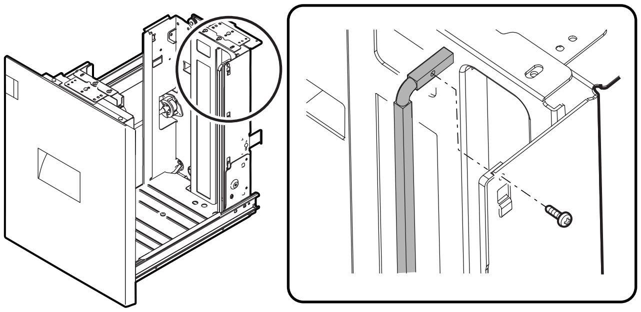


b. Auxiliary guide size switch

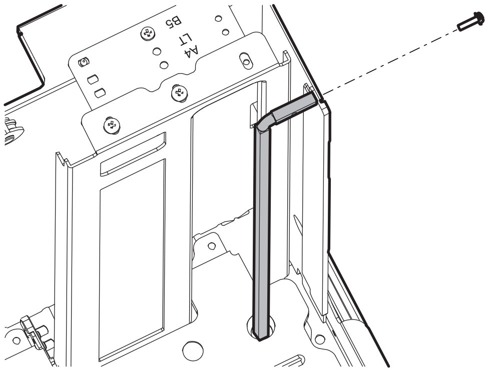
* Since the auxiliary guide setting is not required, fix the auxiliary guide to either of A4 or LT. (To prevent against missing of the part)

c. Rear edge shaft switch

1) Remove the rear edge shift fixing screw (blue screw) which is fixing the shaft to the right side inside the tray, and remove the rear edge shaft.



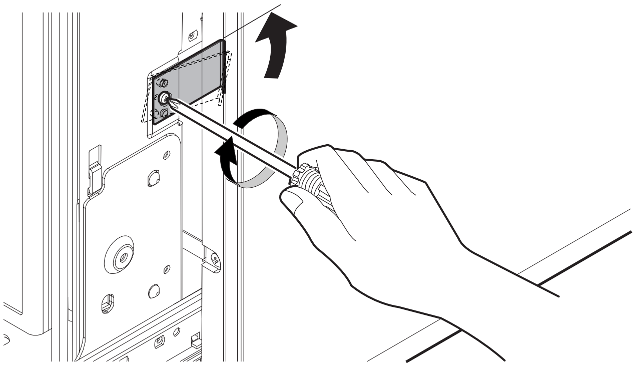
2) Insert the removed rear edge shaft into the mounting hole in the paper feed desk as shown in the figure below. Fix the upper section with the fixing screw (blue screw) which was removed previously.



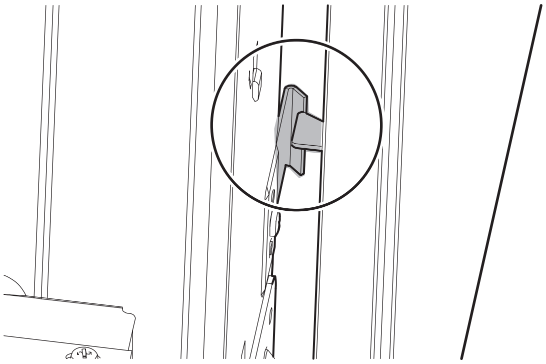
NOTE:

When the rear edge shaft is switched to B5, check to confirm that the side plates F/R are already set to B5. If the side plates F/R are not set to B5, the rear edge shaft cannot be switched to B5.

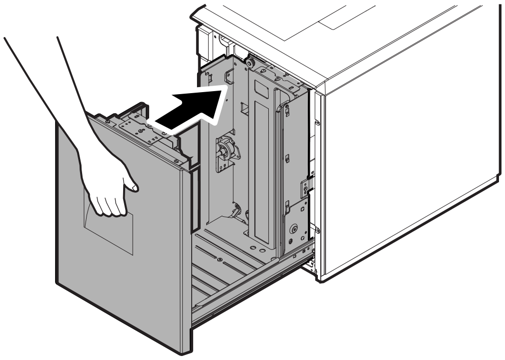
3) Slightly push the tray, restore the stopper to the original position, and fix the fixing screw.



At that time, check to insure that the stopper pawl is engaged with the stopper reception of the large capacity tray unit.

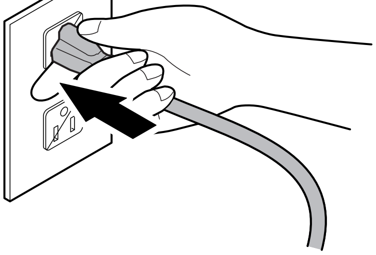


4) Slowly insert the tray to the original position.



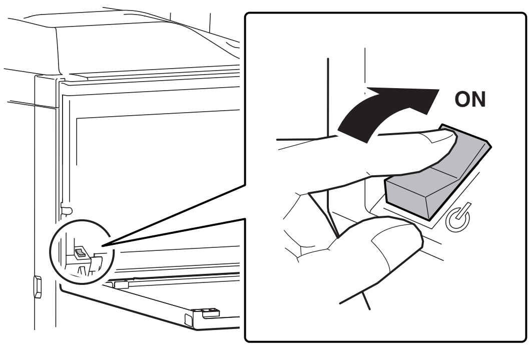
F. Turn on the power of the main unit

1) Insert the power plug of the main unit into the power outlet.



2) Open the front cabinet.

Turn ON the power switch in the front cabinet of the main unit.



3) Turn ON the power switch on the operation panel.

G. Size setting

Execute SIM 26-2 "Size setting" with the key operations of the main unit.

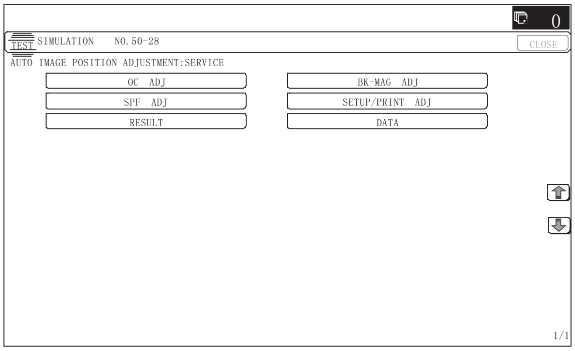
1) The size selection menu of the large capacity tray is displayed on the operation message display.
2) Select a size button to be set on the message screen.

H. Off-center adjustment

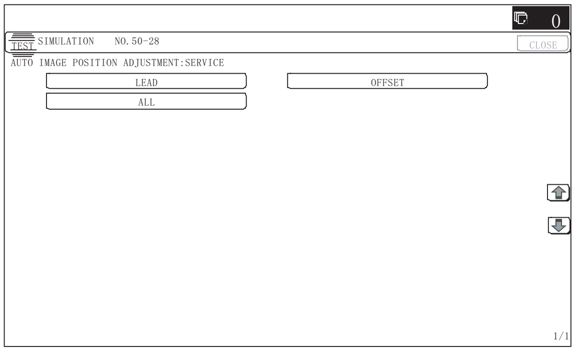
(1) Adjustment with the simulation

Since the off-center adjustment is performed when shipping, there is basically no need to perform this adjustment. If the center is shifted, perform the following adjustment procedures.

1) Enter the SIM50-28 mode.


0
TEST
SIMULATION NO. 50-28
CLOSE
AUTO IMAGE POSITION ADJUSTMENT:SERVICE
OC ADJ
BK-MAG ADJ
SPF ADJ
SETUP/PRINT ADJ
RESULT
DATA
1/1

2) Select [SETUP/PRINT] ADJ with the key button.
3) Select [ALL] with the key button.


0
TEST
SIMULATION NO. 50-28
CLOSE
AUTO IMAGE POSITION ADJUSTMENT:SERVICE
LEAD
OFFSET
ALL
1/1

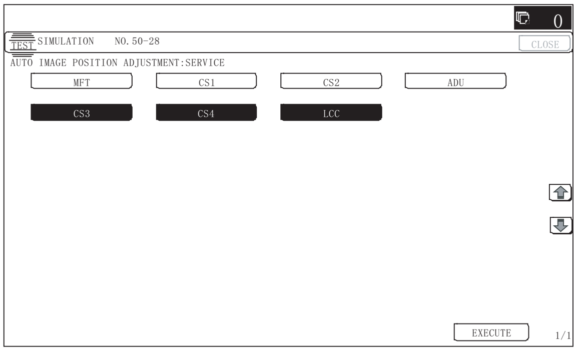
(Note)

By pressing [LEAD] or [OFFSET] button, the following items can be executed individually.

* [LEAD]: Print image lead edge image position adjustment
* [OFFSET]: Print image off-center adjustment

When [ALL] is selected, both of the above two items are executed simultaneously.

4) Select a paper feed tray to be adjusted.

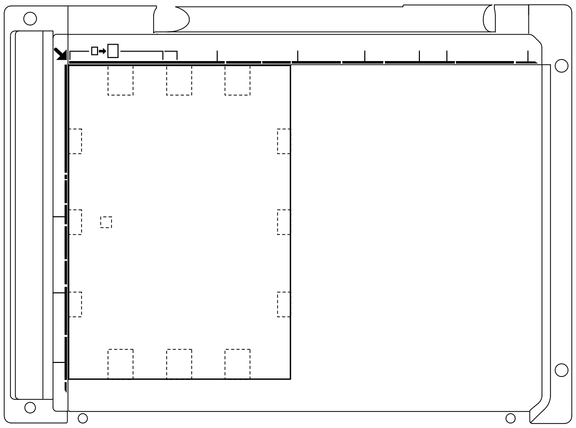

0
TEST
SIMULATION NO. 50-28
CLOSE
AUTO IMAGE POSITION ADJUSTMENT:SERVICE
MFT
CS1
CS2
ADU
CS3
CS4
LCC
EXECUTE
1/1

5) Press [EXECUTE] key.

The adjustment pattern is printed out.

6) Set the adjustment pattern on the document table. (Any direction)

NOTE: Fit the adjustment pattern correctly with the document guide.



7) Press [EXECUTE] key.

The following item is automatically adjustment.

* Print image lead edge image position adjustment
* Print image off-center adjustment

8) Press [OK] key.

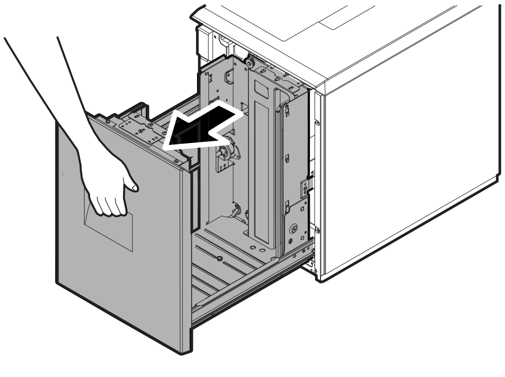
The adjustment result becomes valid.

Perform procedures 4) to 7) for each paper feed tray.

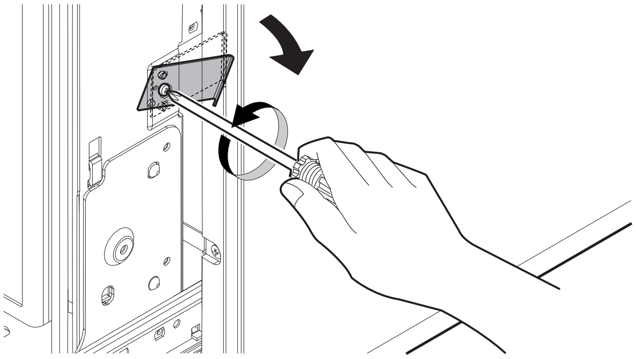
(2) Mechanical adjustment

Since the off-center adjustment is performed when shipping, there is basically no need to perform this adjustment. If the center is shifted, however, the simulation is normally used. If the shift is not removed, perform the following adjustment procedures.

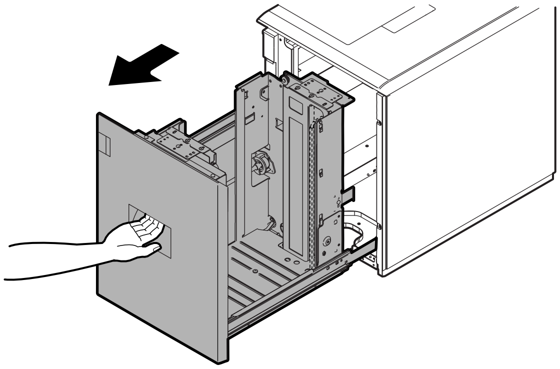
1) Slowly pull out the tray until it stops.



2) Loosen the stopper fixing screw (1 pc) on the right lower side of the tray so that the stopper does not function.



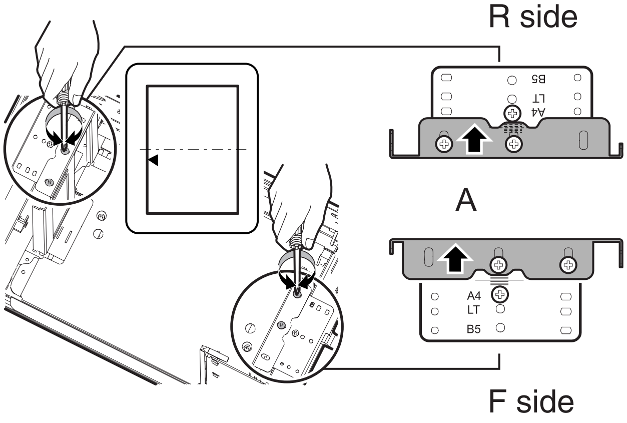
3) Pull out the tray again until it stops.

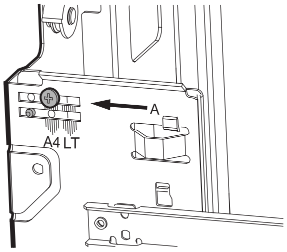


a. When the shift is in the front side

To adjust the print line in the direction A from the paper center as shown in the figure:

1) Loosen two fixing screws (red screws) of the front/rear size guide adjustment plate, and move the size guide adjustment plate in the direction A (R side) by the shift amount, and tighten the red fixing screws (2 for each). Move the auxiliary guide in the direction A by the same size.





Slightly push the tray, restore the stopper to the original position, and fix the fixing screw.

Check to insure that the stopper pawl is engaged with the stopper reception of the large capacity tray.

2) Slowly insert the tray to the original position.

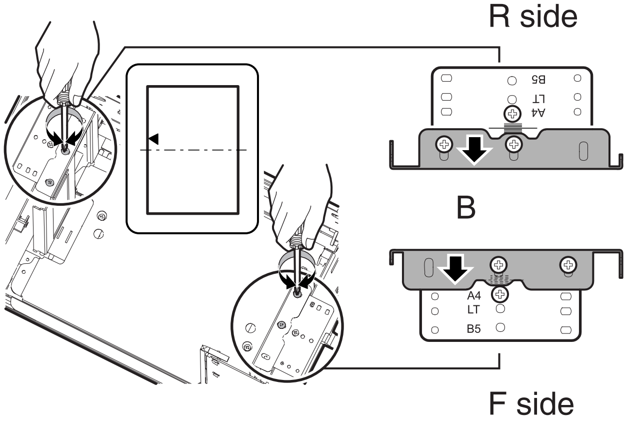
Then make a copy to check to insure that there is no more shift. Repeat the procedures until there is no shift.

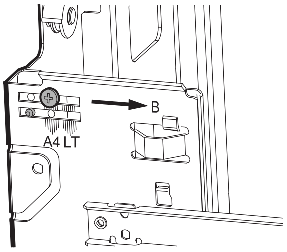
b. When the shift is in the rear side

To adjust the print line in the direction B from the paper center as shown in the figure:

1) Loosen two fixing screws (red screws) of the front/rear size guide adjustment plate, and move the size guide adjustment plate in the direction B (F side) by the shift amount, and tighten the red fixing screws (2 for each). Restore the stopper to the original position, and fix it with the fixing screws. Move the auxiliary guide in the direction B by the same size.

Check to insure that the stopper pawl is engaged with the stopper reception of the large capacity tray.





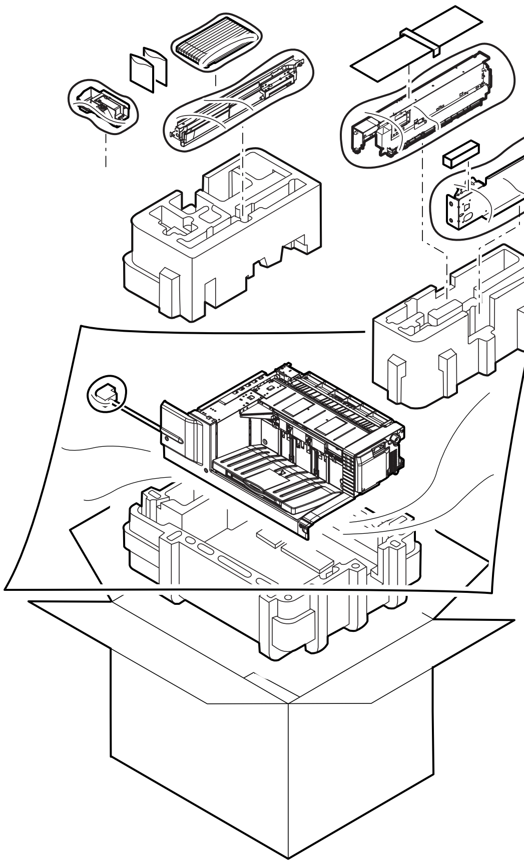
2) Slowly insert the tray to the original position.

Then make a copy to check to insure that there is no more shift. Repeat the procedures until there is no shift.

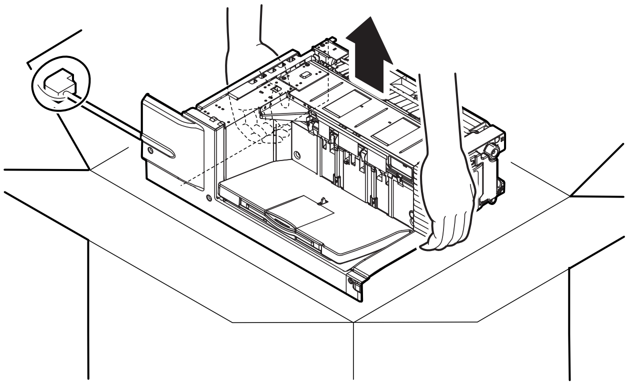
[4] MX-FNX9

1. Unpacking

A. Removal of the inner finisher

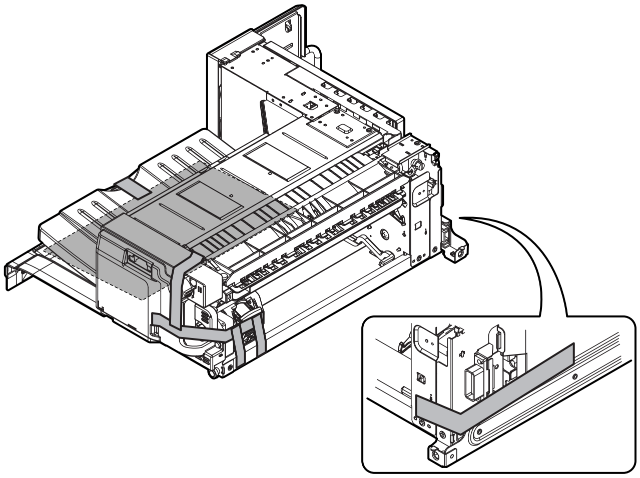


* When removing the inner finisher, lift it as shown in the table below.



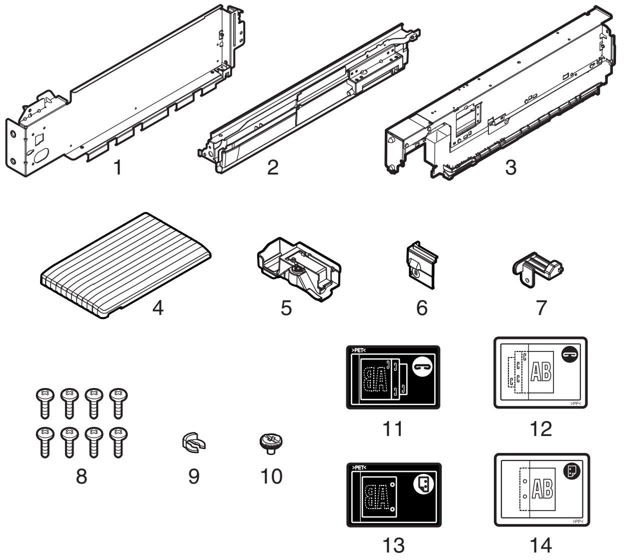
B. Removal of the fixing tape and protection material

1) Remove the fixing tape and protection material.



C. Check the packed items

1) Check that all the items are included in the package.



No.	Packed part names	Quantity
1	Finisher fixing plate	1
2	Front slide rail	1
3	Dummy punch unit	1
4	Front open/close cover	1
5	Punch cover	1
6	Left front cover	1
7	Finisher slide stopper	1
8	Fixing screw	8
9	Resin clip	1
10	Coin screw	1
11	Staple position label (For scanner)	1
12	Staple position label (For RSPF/DSPF)	1
13	Punch position label (For scanner)	1
14	Punch position label (For RSPF/DSPF)	1

* The punch position labels (No.13 and No.14) should be kept at hand since they will be necessary when installing the punch unit.

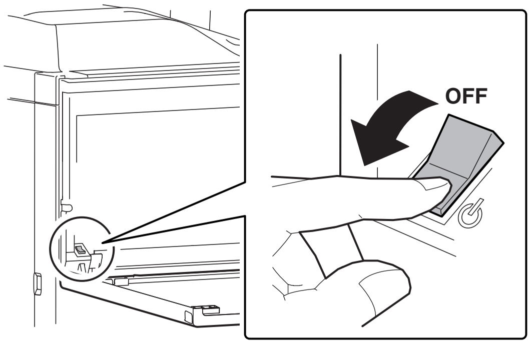
2. Installation

<Note before installation>

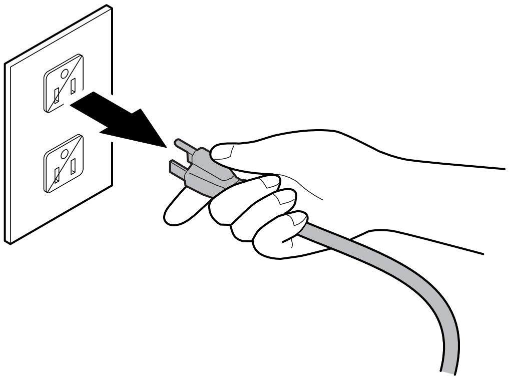
* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

A. Turn off the power of the main unit

1) Turn OFF the power switch on the operation panel.
2) Open the front cabinet.
Turn OFF the power switch in the front cabinet of the main unit.

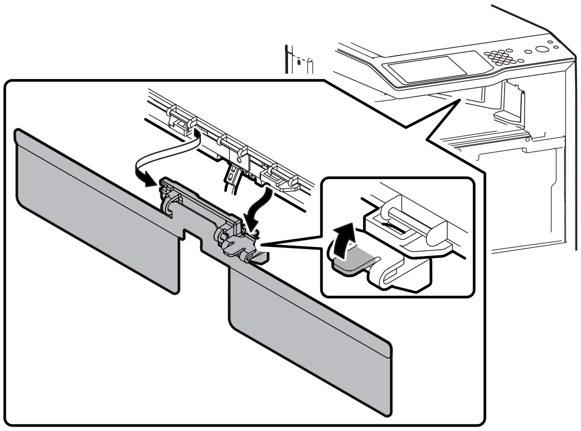


3) Disconnect the power plug of the main unit from the power outlet.



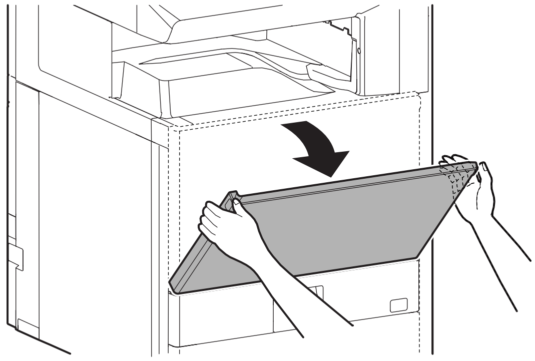
B. Removal of the paper holding plate unit

▲1 1) Disengage the pawl, and remove the paper holding plate and the paper holding plate holder together as a unit.
  * Be careful to remove both of the paper holding plate (which is easily removed alone) and the paper holding plate holder.

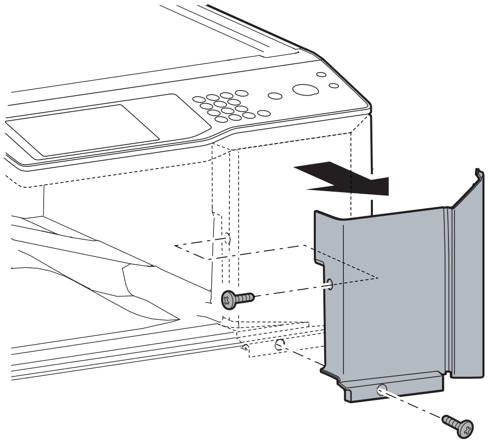


C. Installation of the inner finisher

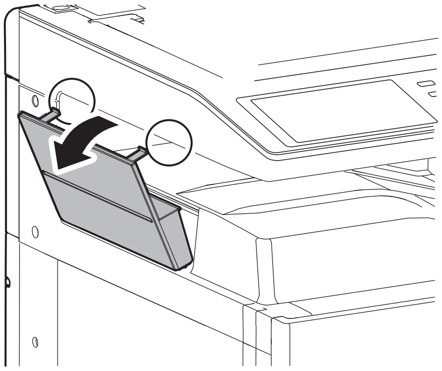
1) Open the front cover.



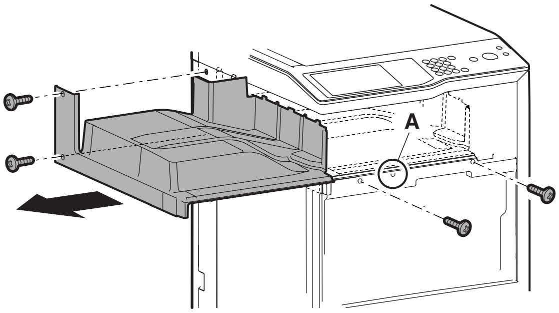
2) Remove two screws, and remove the front cabinet upper.



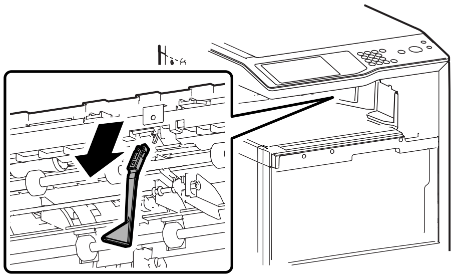
3) Disengage two pawls, and remove the paper exit tray cover.



4) Remove four screws, and remove the paper exit tray.
  * When removing the paper exit tray, there is no need to remove the screws in the section (A).

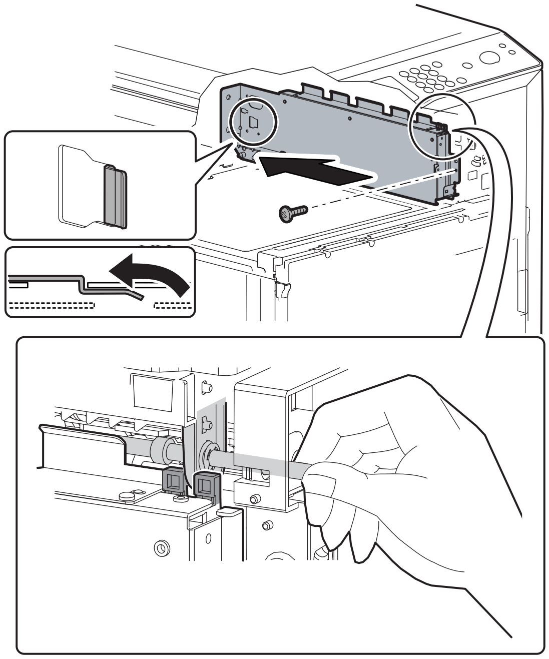


5) Remove the paper exit full detection actuator.



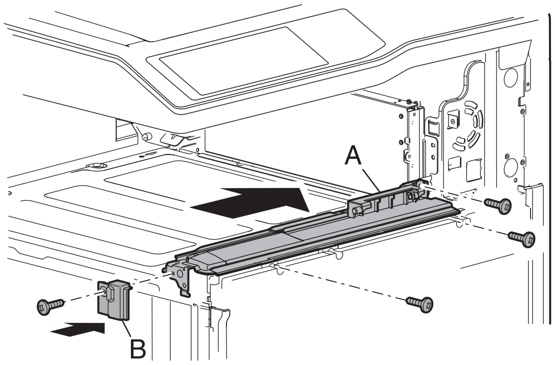
6) Engage the projection on the main unit frame with the hole in the finisher fixing plate (package part No. 1).

7) Fix the right cover plate with the fixing screw (package part No. 8).

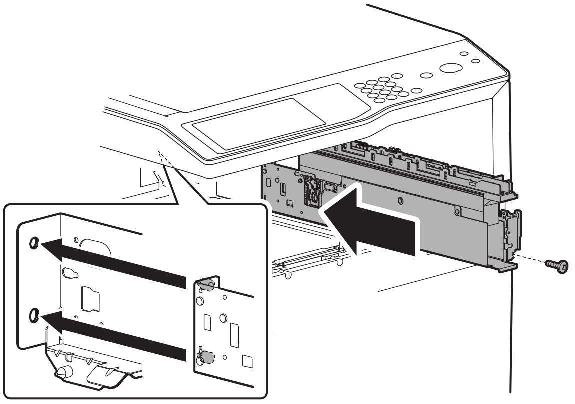


* Fix the side plate of the paper exit shifter with the fixing guide.

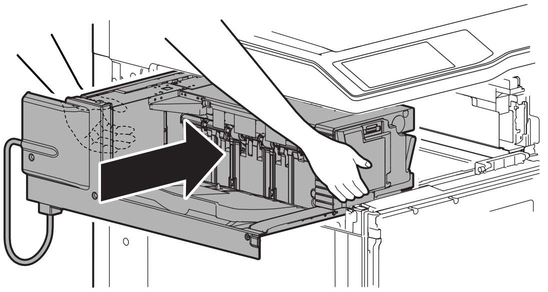
8) Install the front slide rail (A) (package part No. 2) with the three fixing screws (package part No. 8), and install the left front cover (B) (package part No. 6) with one fixing screw (package part No. 8).



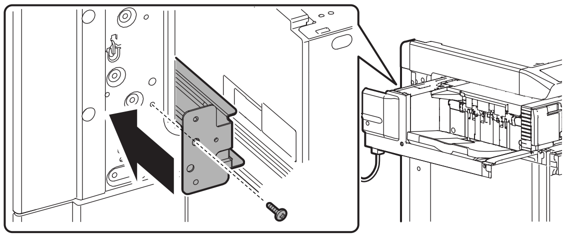
9) Fix the dummy punch unit (package part No. 3) with the fixing screw (package part No. 8).



10) Check to insure that the slide roller is in the rail groove, and insert the inner finisher.

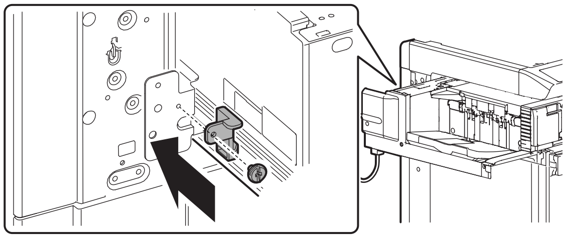


11) Fix the rear slide rail with the fixing screw (package part No. 8).

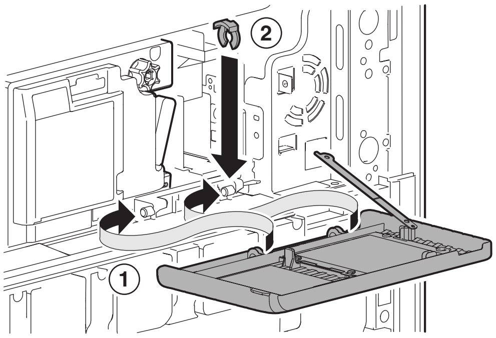


12) After pushing the intermediate rail of accuride, insert the finisher slide stopper (package part No. 7) between the rear slide rail and the accuride.

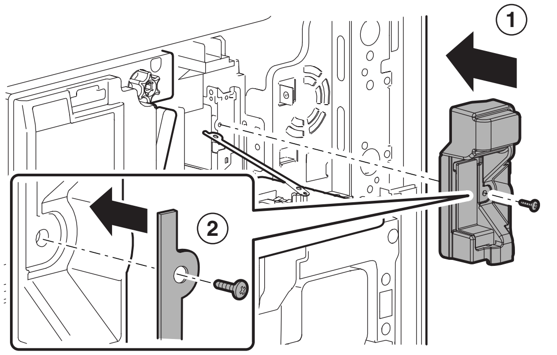
Fix it with the coin screw (package part No. 10).



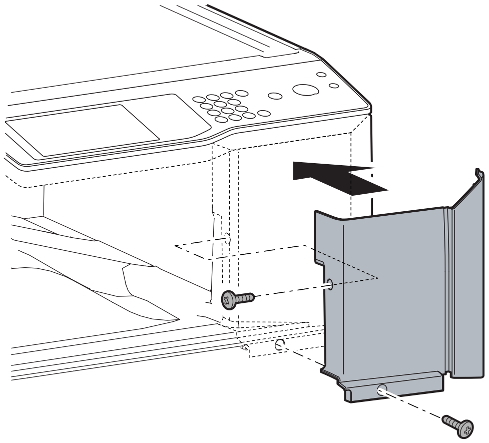
13) Install the front open/close cover (package part No. 4) to the front rail stay rotating shaft, and fix it with the resin clip (package part No. 9).



14) Fix the punch cover (package part No. 5) together with the band (metal fixture) with the fixing screw (package part No. 8).

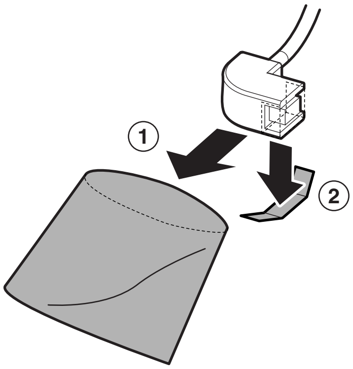


15) Install the front cabinet upper with two screws.

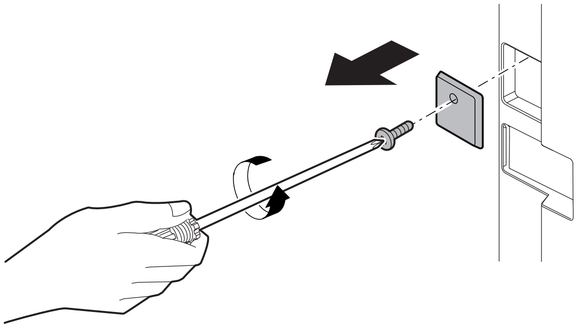


D. Connector Installation

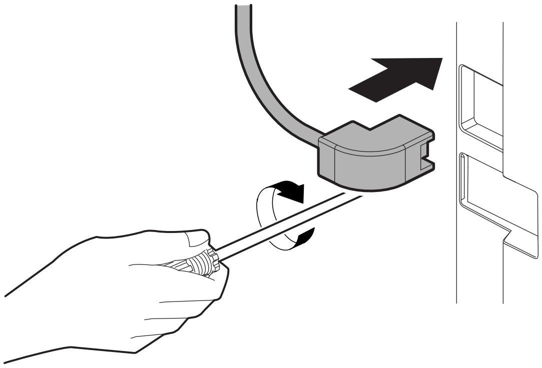
1) Remove the protection material and fixing tape.



2) Remove the screw, and remove the connector cover.



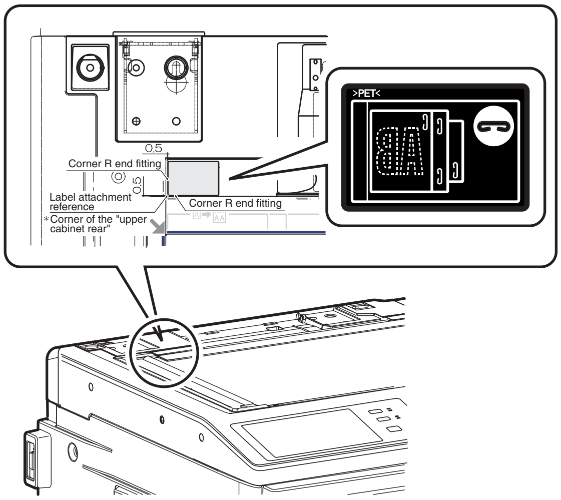
3) Connect the finisher connector with the main unit connector, and tighten with a screw.



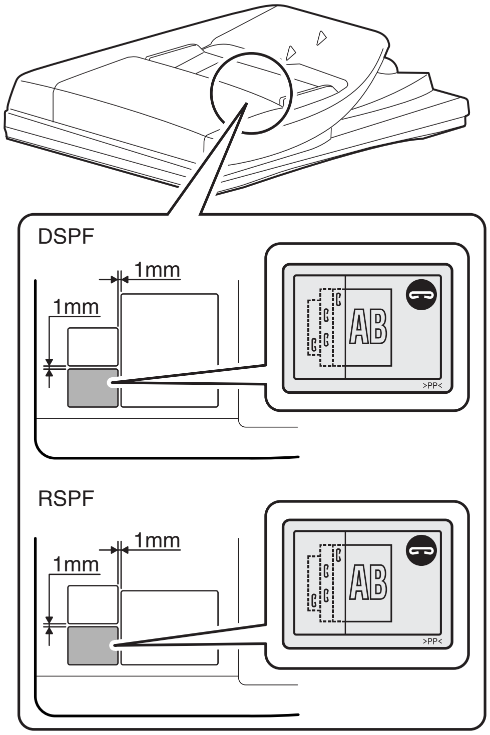
E. Staple position label attachment

1) Attach the label to the position indicated in the figure.

[For scanner] (package part No. 11)

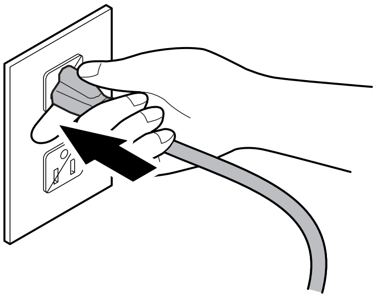

>PET<
0.5
Corner R end fitting
0.5
Label attachment reference
Corner R end fitting
∗Corner of the "upper cabinet rear"

[For DSPF/RSPF] (package part No. 12)


DSPF
1mm
1mm
>PP<
RSPF
1mm
1mm
>PP<

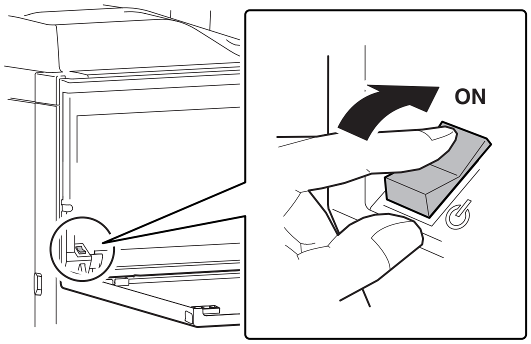
F. Turn on the power of the main unit

1) Insert the power plug of the main unit into the power outlet.



2) Open the front cabinet.

Turn ON the power switch in the front cabinet of the main unit.

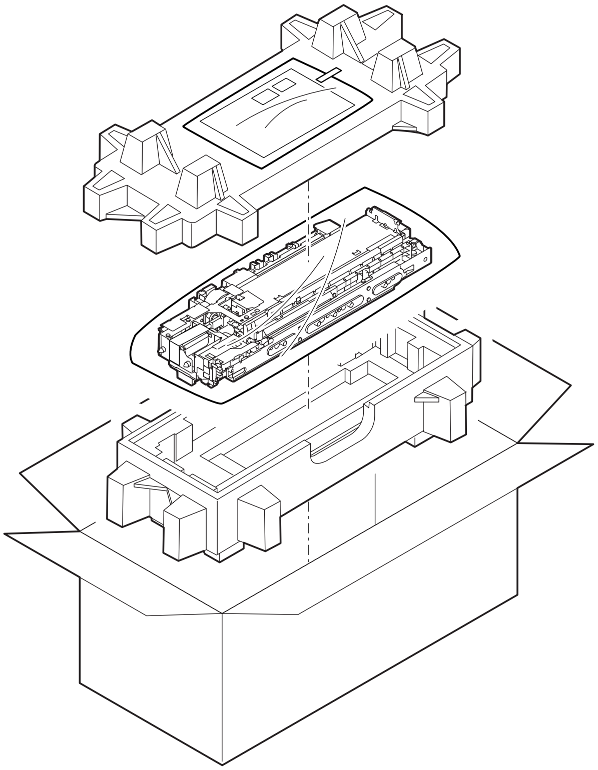


3) Turn ON the power switch on the operation panel.

[5] MX-PNX1

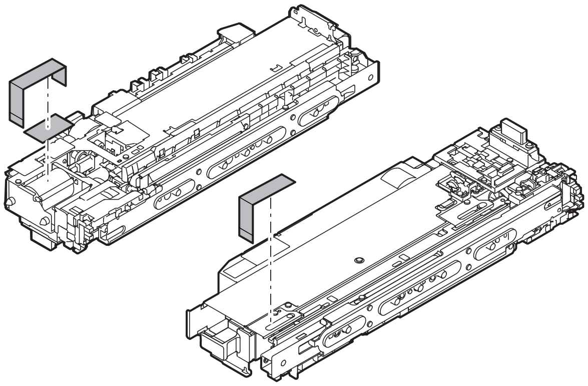
1. Unpacking

A. Removal of the punch unit



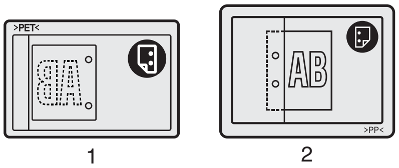
B. Removal of the fixing tape

1) Remove the fixing tape.



C. Check the packed items

1) Check that all the items are included in the package.



No.	Packed part names	Quantity
1	Punch position label (For scanner)	1
2	Punch position label (For RSPF/DSPF)	1

* Do not use the punch position label which is one of the packed parts, but use one packed in the package of the finisher (MX-FNX9).

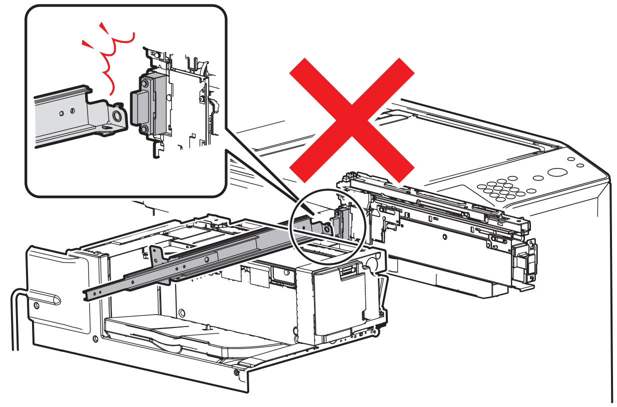
2. Installation

* **When the punch unit is installed together with installation of the MX-FNX9 (inner finisher), first install the inner finisher, and then install the punch unit.**

<Note before installation>

* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

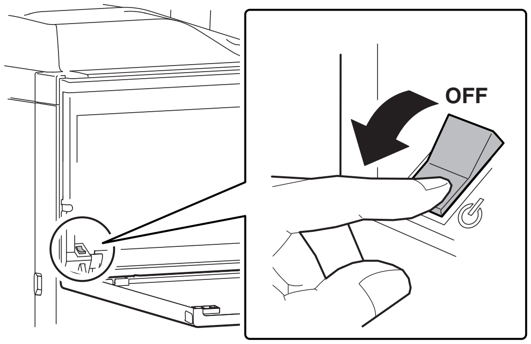
* Do not install the punch unit first because doing so would cause interference between the inner finisher slide rail and the punch unit drawer connector (possibly resulting in failure) when you attempt to install the inner finisher.



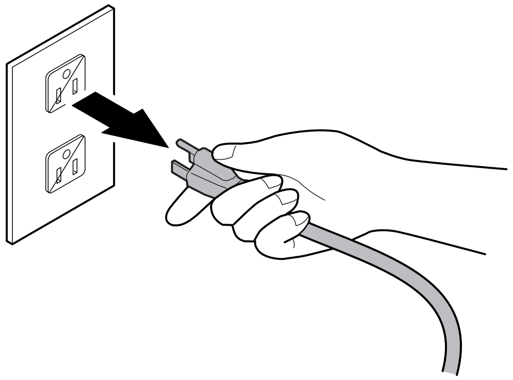
A. Turn off the power of the main unit

1) Turn OFF the power switch on the operation panel.

2) Open the front cabinet.
Turn OFF the power switch in the front cabinet of the main unit.

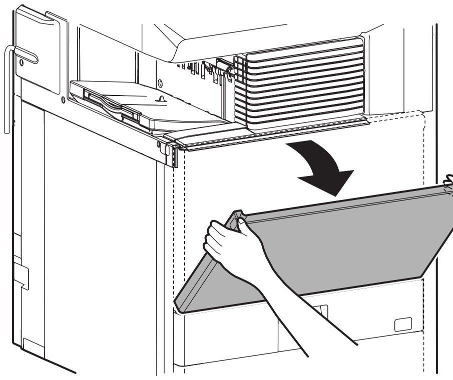


3) Disconnect the power plug of the main unit from the power outlet.

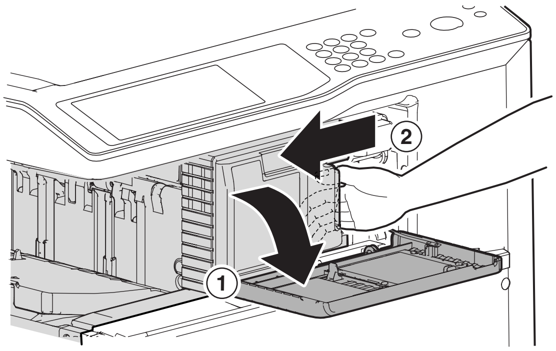


B. Installation of the punch unit

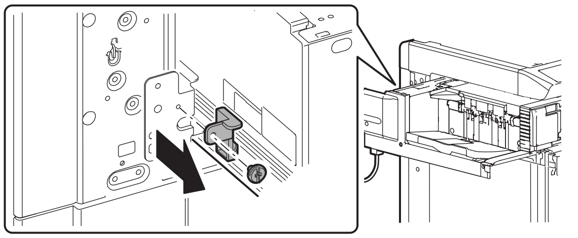
1) Open the front cabinet.



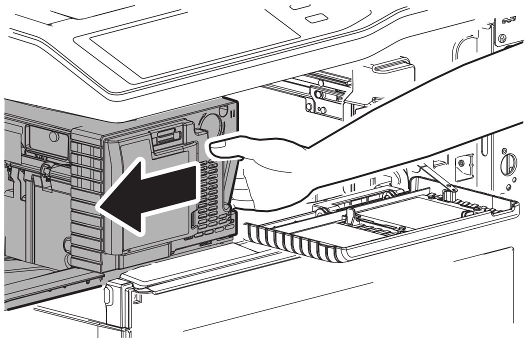
2) Open the front cover and slide the inner finisher to the left.



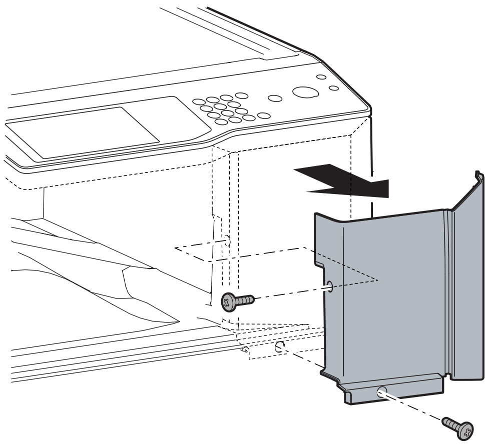
3) Remove the coin screw, and remove the finisher slide stopper.



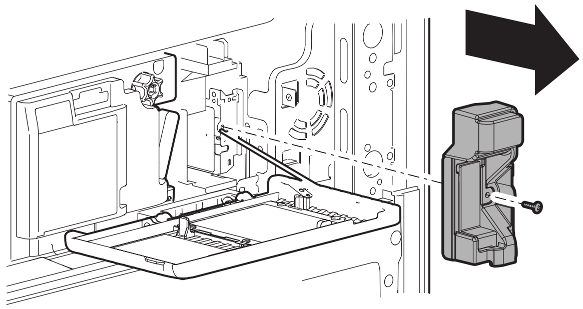
4) Slide the inner finisher further more.



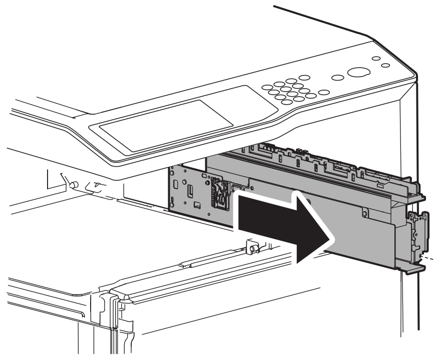
5) Remove two screws, and remove the front cabinet upper.



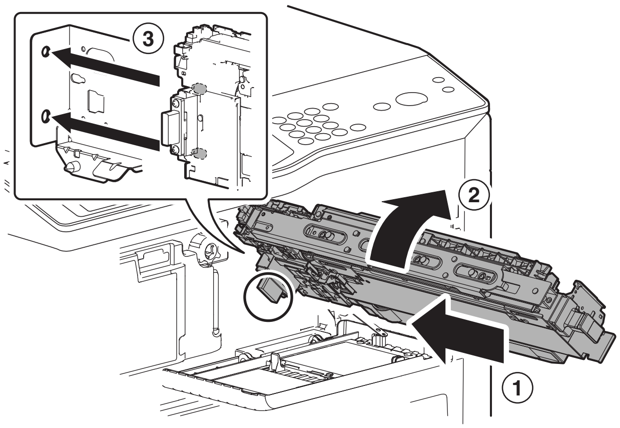
6) Remove the screw, and remove the band and the punch cover.



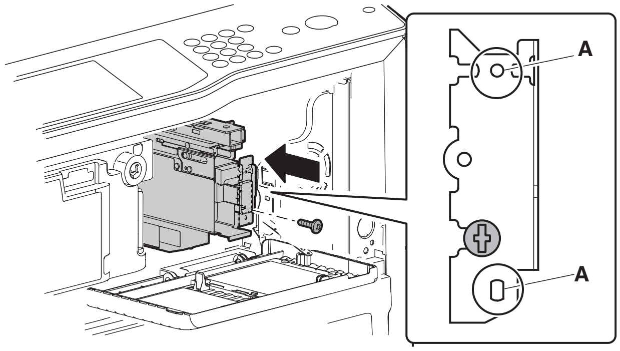
7) Remove the screw, and remove the dummy punch unit.



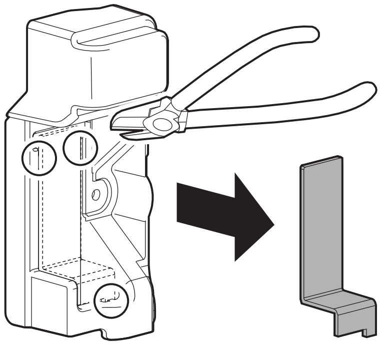
8) Fix the punch unit with a screw.
   - * When installing the punch unit, be careful not to bump it against the drawer connector.
   - * Fit the positioning pin and insert it.



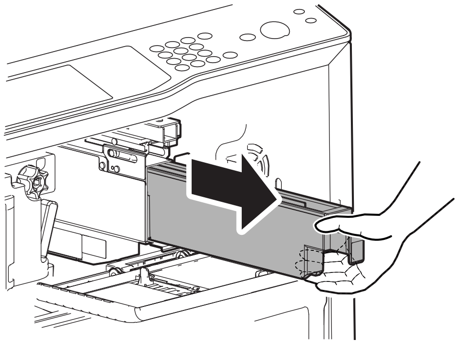
9) Make positioning with the dove (A) and fix the punch unit with the screw which was fixing the dummy punch unit.



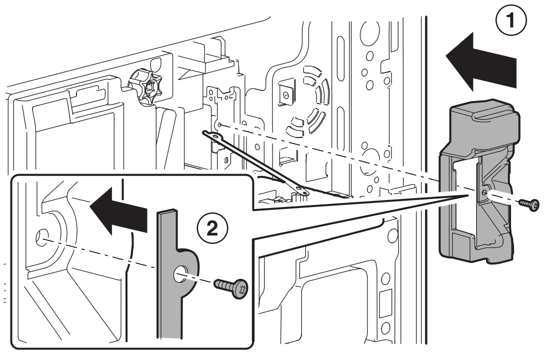
10) Cut the lid of the punch cover with nippers.



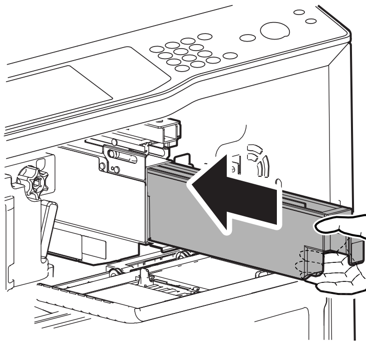
11) Remove the dust box.



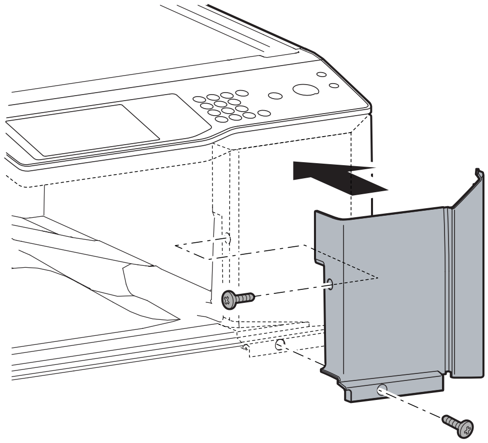
12) Fix the punch cover and the band together with one screw.



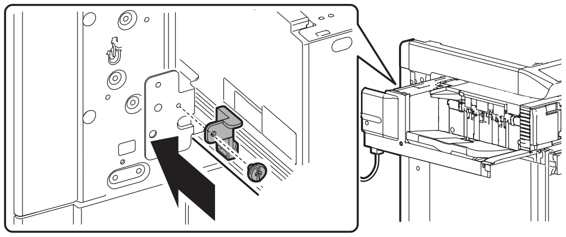
13) Insert the dust box.



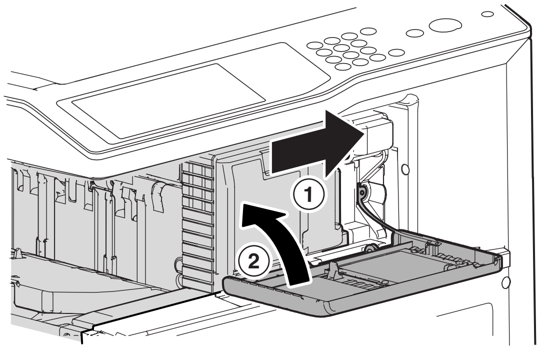
14) Install the front cabinet upper part using the two screws removed in step 5).



15) Insert the finisher slide stopper between the slide rail and the accuride, and fix it with the coin screw.



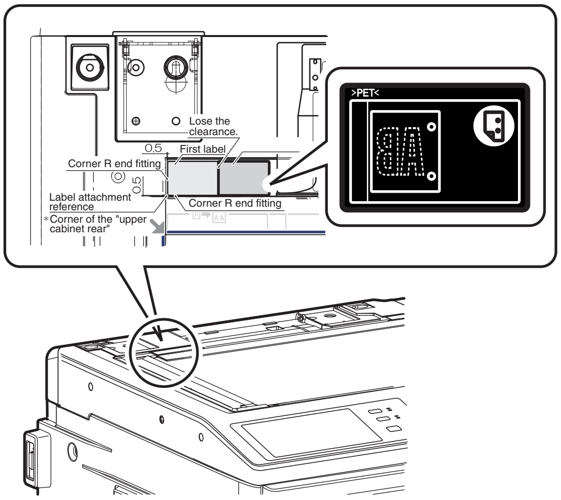
16) Slide the inner finisher to the original position, and close the front cover.



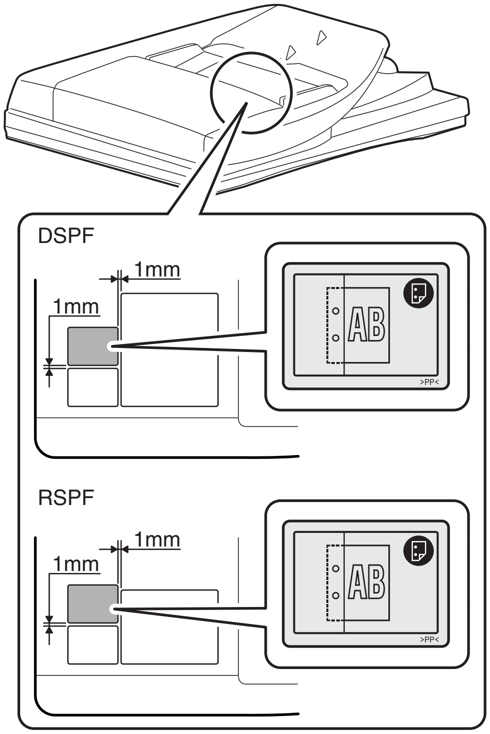
C. Punch position label attachment

1) Attach the label to the position indicated in the figure.

[For scanner] (Part No. 13 in the package of the MX-FNX9)

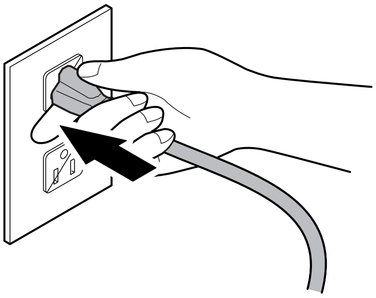

Lose the clearance.
0.5
First label
Corner R end fitting
0.5
Label attachment reference
Corner R end fitting
＊Corner of the "upper cabinet rear"
>PET<

[For DSPF/RSPF] (Part No. 14 in the package of the MX-FNX9)


DSPF
1mm
1mm
>PP<
RSPF
1mm
1mm
>PP<

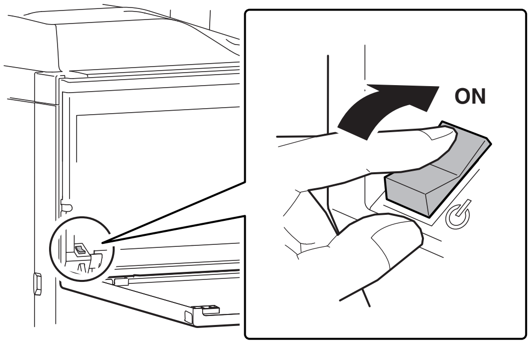
D. Turn on the power of the main unit

1) Insert the power plug of the main unit into the power outlet.



2) Open the front cabinet.

Turn ON the power switch in the front cabinet of the main unit.

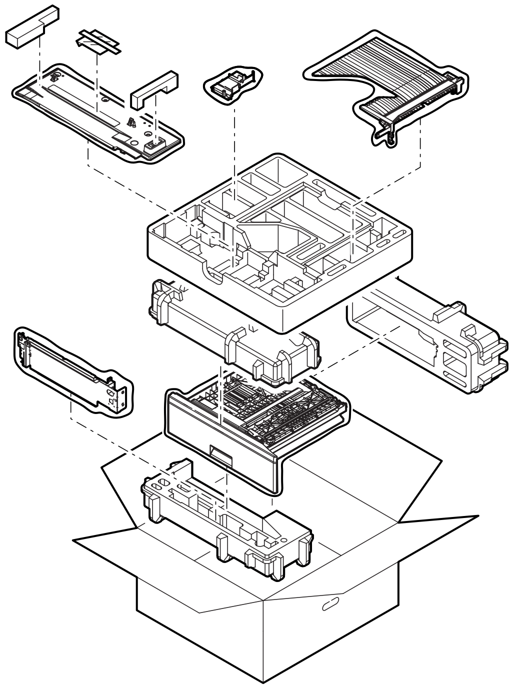


3) Turn ON the power switch on the operation panel.

[6] MX-RBX3

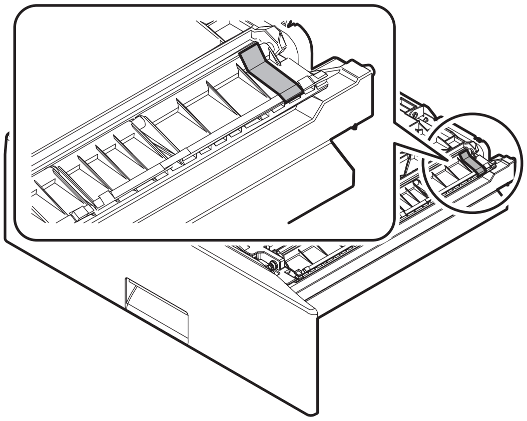
1. Unpacking

A. Removal of the interface pass unit



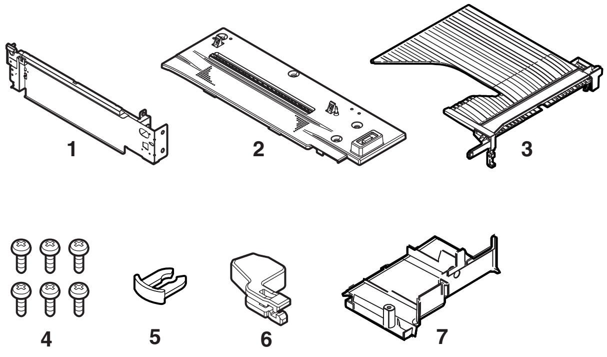
B. Removal of the fixing tape

1) Remove the fixing tape.



C. Check the packed items

1) Check that all the items are included in the package.



No.	Packed part names	Quantity
1	Right cover plate	1
2	Interface left cabinet	1
3	Reverse tray	1
4	Fixing screw A	6
5	Resin clip	1
6	Reverse detection actuator	1
7	Front cabinet upper C	1

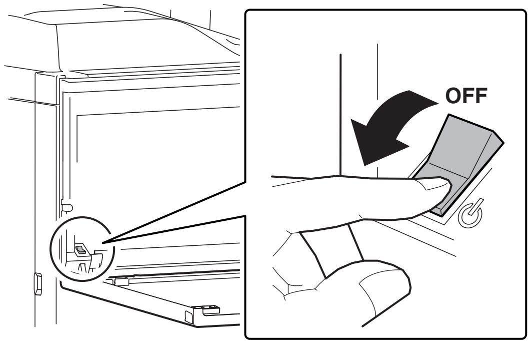
2. Installation

<Note before installation>

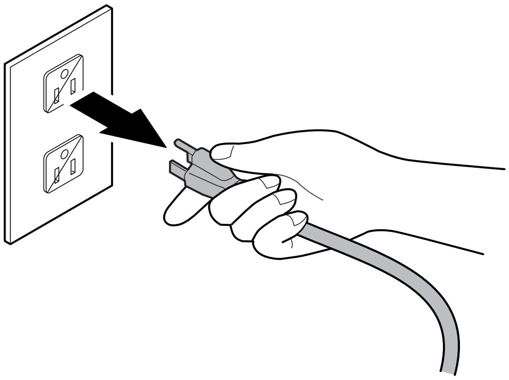
* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

A. Turn off the power of the main unit

1) Turn OFF the power switch on the operation panel.
2) Open the front cabinet.
   Turn OFF the power switch in the front cabinet of the main unit.



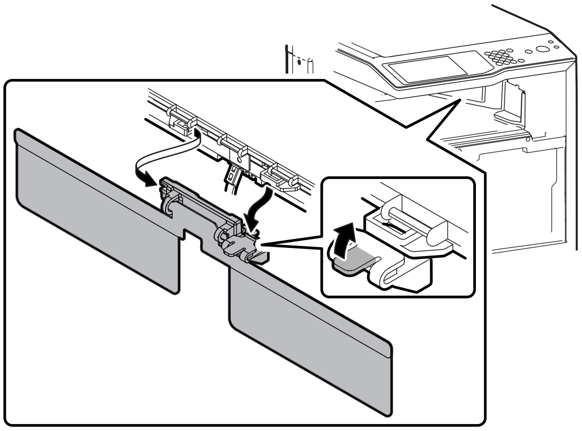
3) Disconnect the power plug of the main unit from the power outlet.



B. Removal of the paper holding plate unit

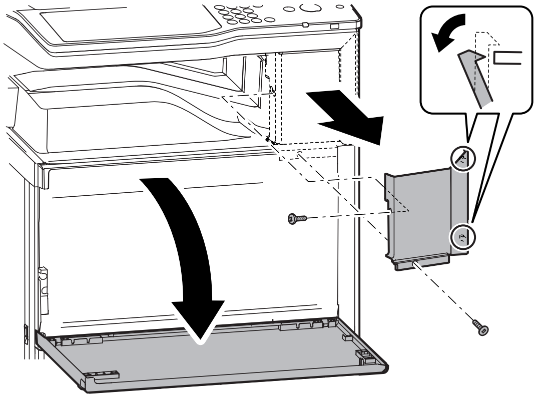
1) Disengage the pawl, and remove the paper holding plate and the paper holding plate holder together as a unit.

   * Be careful to remove both of the paper holding plate (which is easily removed alone) and the paper holding plate holder.

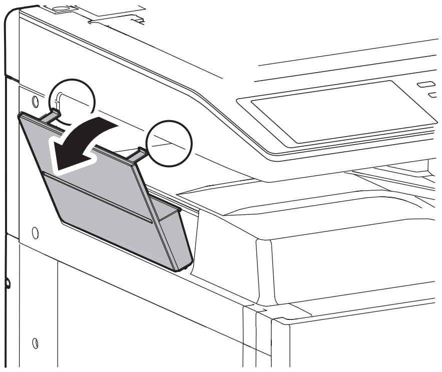


C. Installation of the interface pass unit

1) Open the front cabinet. Remove the screws, and remove the front cabinet upper.

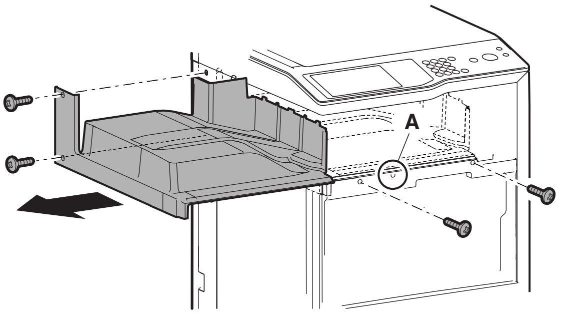


2) Disengage the pawls, and remove the paper exit tray cover.



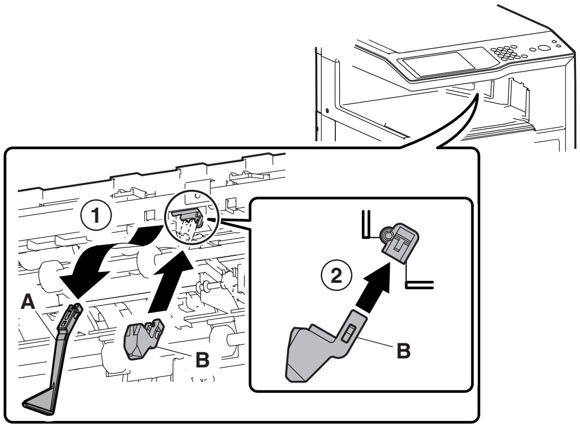
3) Remove the screws, and remove the paper exit tray.

   * When removing the paper exit tray, there is no need to remove the screws in the section (A).

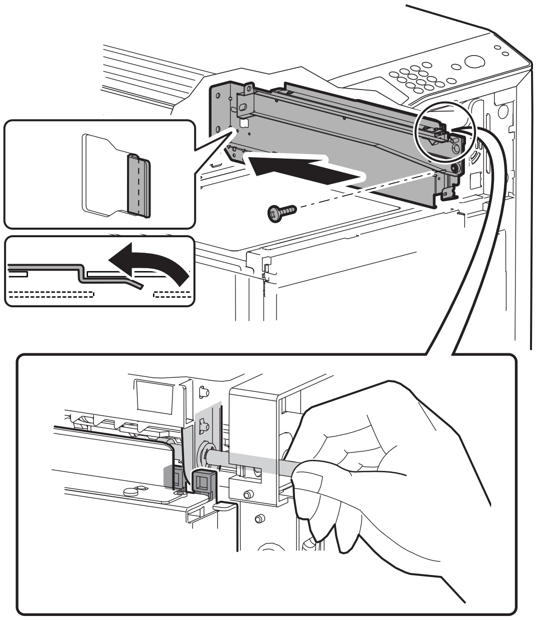


4) Remove the paper exit full detection actuator (A), and install the reverse detection actuator (B) (package part No. 6).

   * Be careful of the installing direction of the reverse detection actuator.

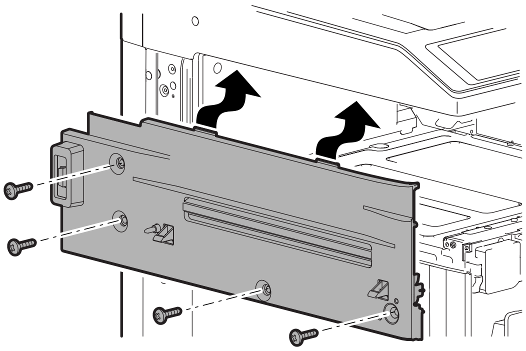


5) Engage the projection of the main unit frame with the hole in the right cover plate (package part No. 1), and install the right cover plate and fix it with the fixing screw A (package part No. 4).



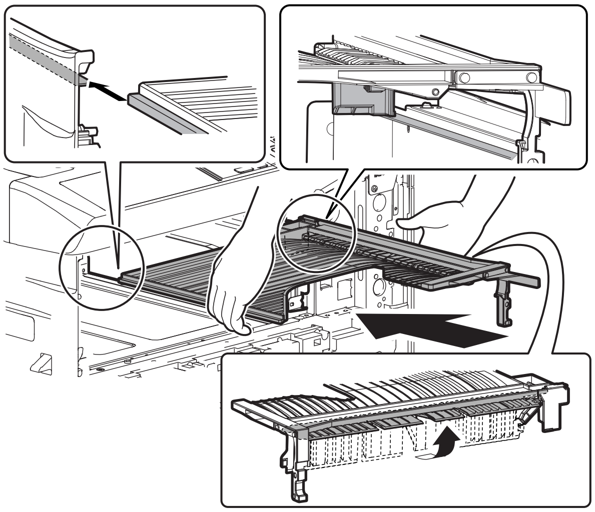
* Be sure to clamp and fix the paper exit tray shifter side plate with the fixing guide.

6) Insert the rib of the interface left cabinet (package part No. 2) into the slit on the lower surface of the scanner left cabinet. Install the interface left cabinet with the fixing screw A (package part No. 4) of the paper exit tray which was removed in procedure 4).

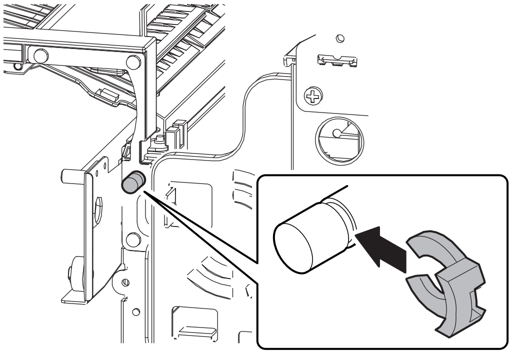


7) Insert the reverse tray (package part No. 3) along the groove in the interface left cabinet and the top surface of the right cover plate.

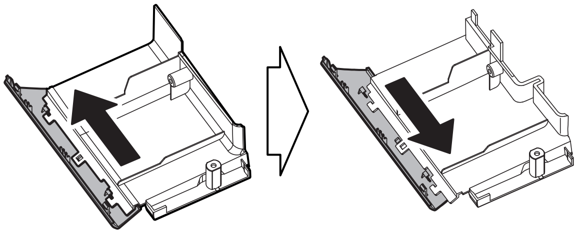
* When inserting the reverse tray, check to insure that the switch guide of the reverse tray is up.



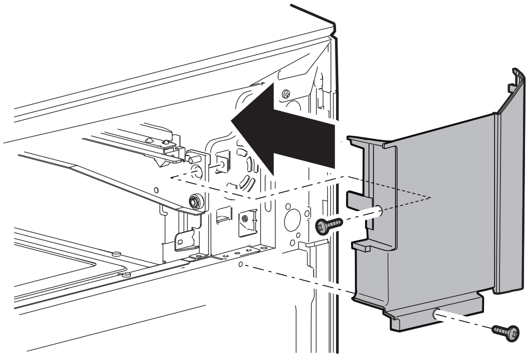
8) Fix the reverse tray with the resin clip (package part No. 5).



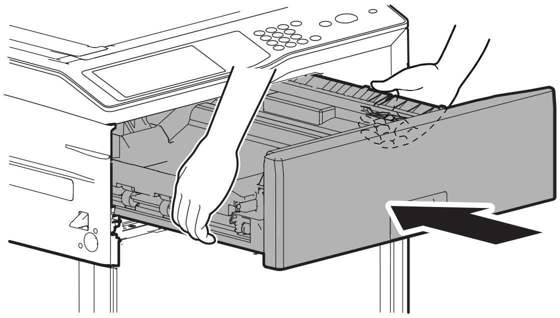
9) Remove the front connection cabinet from the front cabinet upper, and attach it to the front cabinet upper C (package part No. 7).



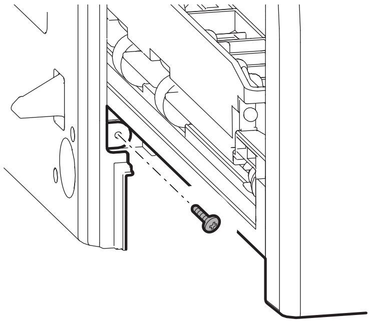
10) Install the front cabinet upper C unit, and fix with the screws.



11) Insert the interface pass unit along the guide rail.



12) Fix the interface pass disconnection preventing lever with the fixing screw A (package part No. 4).



13) Go to the saddle finisher installing procedure.

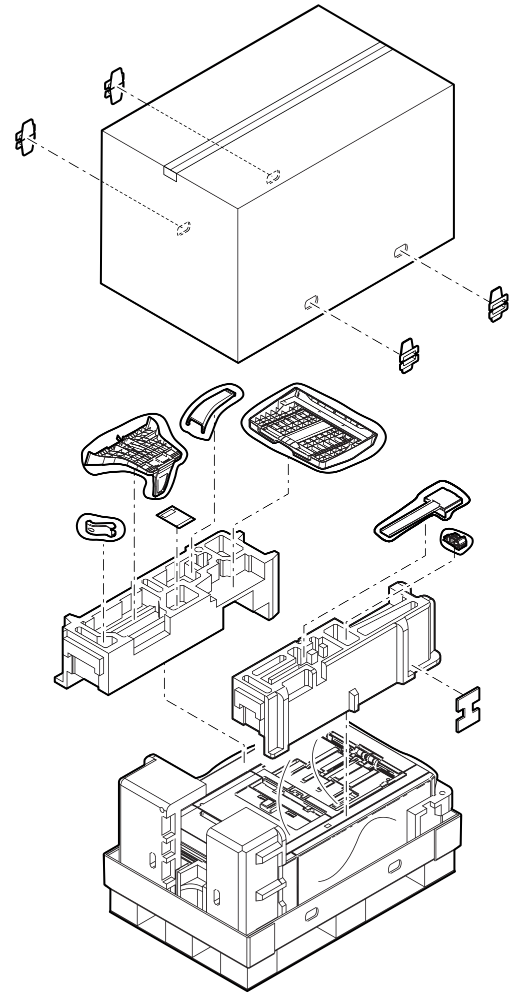
[7] MX-FN10

1. Unpacking

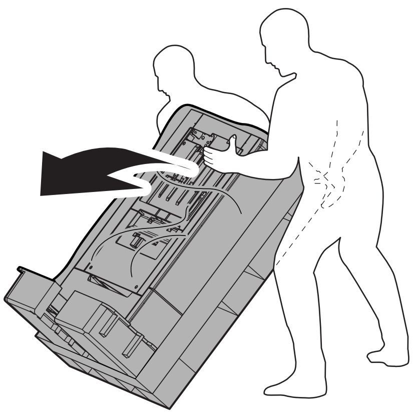
A. Removal of the saddle finisher

* For removal of the saddle stitch finisher, manpower of two persons or more is required.

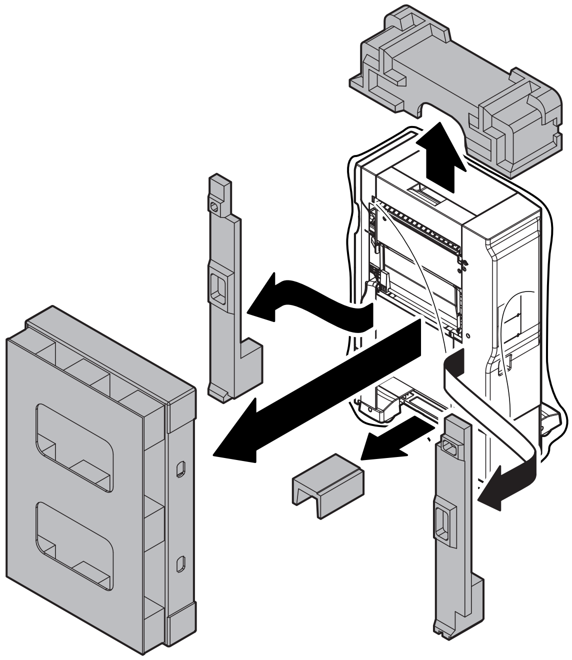
1) Remove the fixing material, and remove the top case.
   Remove the packing cushion and bundled items.



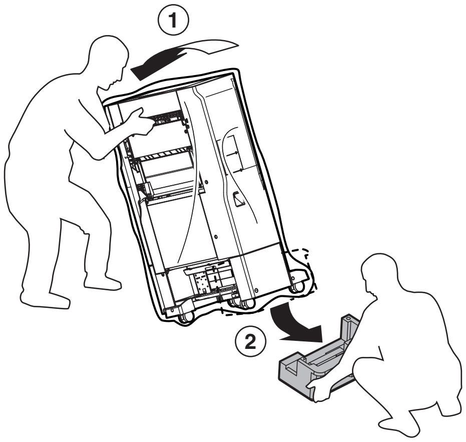
2) Holding the upper part of the saddle stitch finisher by two people, pull up the saddle stitch finisher, and make it stand upright.
   (Be careful to sliding worker's foot.)



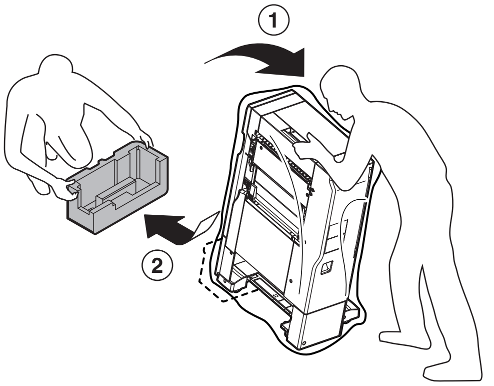
3) Remove the skid and packing cushions.



4) One person tilt the saddle stitch finisher, another person remove the lower tray.

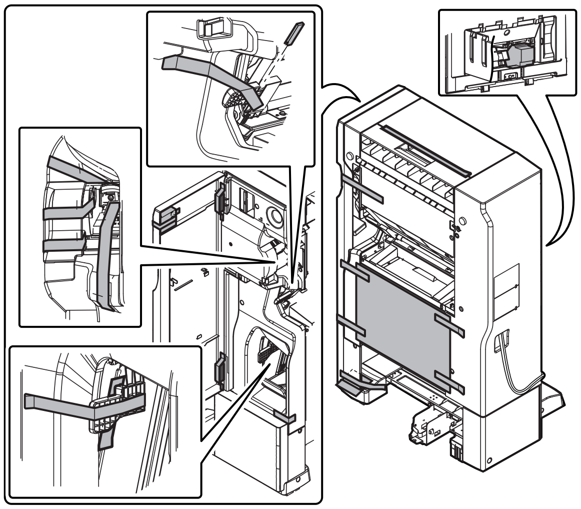


5) Remove the other side similarly.



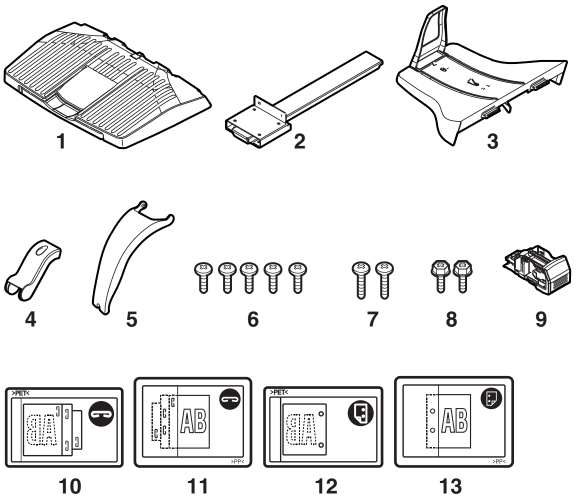
B. Removal of the fixing tape and protection material

1) Remove the fixing tape and protection material.



C. Check the packed items

1) Check that all the items are included in the package.



No.	Packed part names	Quantity
1	Paper exit tray	1
2	Connection plate	1
3	Saddle tray	1
4	Paper holding A	1
5	Paper holding B	1
6	Fixing screw A	5
7	Fixing screw B	2
8	Fixing screw C	2
9	Staple cartridge	1
10	Staple position label (For scanner)	1
11	Staple position label (For RSPF/DSPF)	1
12	Punch position label (For scanner)	1
13	Punch position label (For RSPF/DSPF)	1

* The punch position labels (No.12 and No.13) should be kept at hand since they will be necessary when installing the punch unit.

2. Installation

<Note before installation>

* Make sure that none of the data lamps on the operation panels are lit or flashing before starting the installation work.

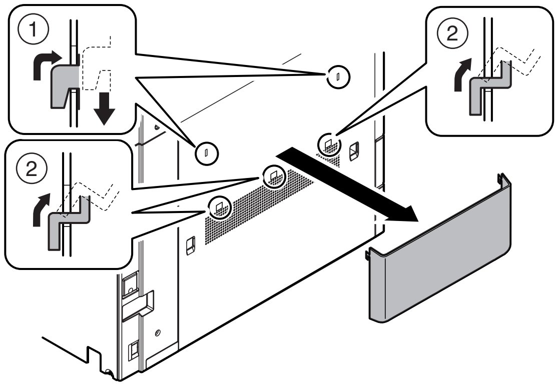
* Installing the MX-FN10 requires that the option desk (MX-DEX8/ DEX9) and junction unit (MX-RBX3) be installed in advance. Be sure to complete the installation of the option desk (MX-DEX8/ DEX9) and junction unit (MX-RBX3) before installing the saddle finisher.

* Make sure that the connection plate provided on the front side of the option desk is securely installed.

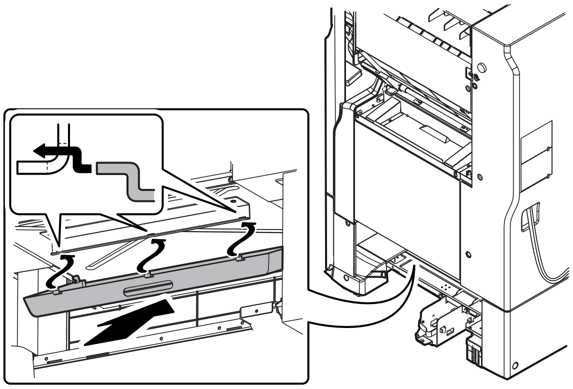
Make sure that the connection plate (package part No. 2) included in the package is securely installed.

A. Replacement of the Operation Manual storage cover

1) Remove the Operation Manual storage cover on the left side of the machine.



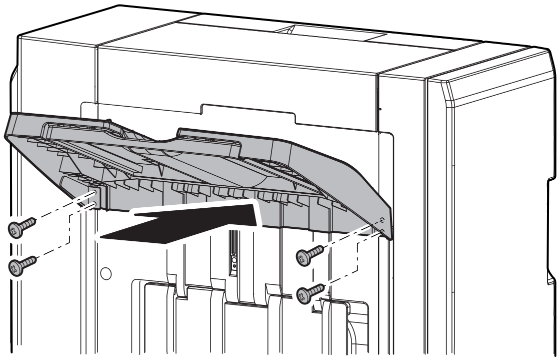
2) Install the Operation Manual storage cover (which was removed from the machine) to the saddle finisher.



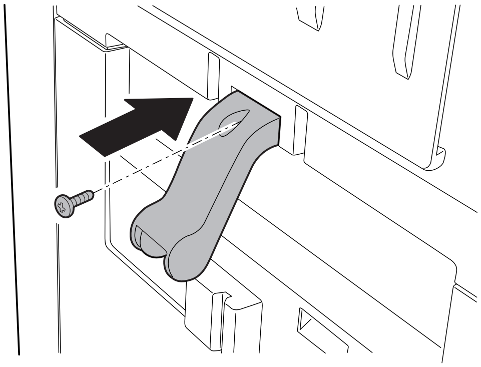
B. Installation of the paper exit tray

1) Engage the pawls (two positions) of the paper exit tray (package part No. 1) on the finisher.

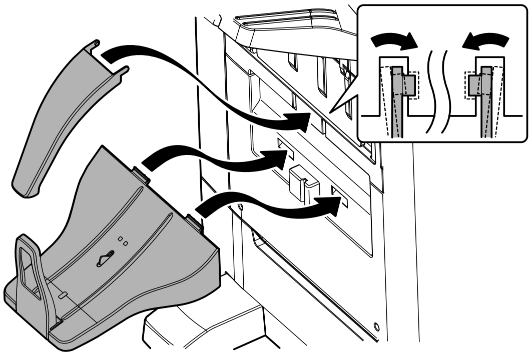
Fix the paper exit tray with fixing screws A (package part No. 6).



2) Fix the paper holding A with fixing screws A (package part No. 6).

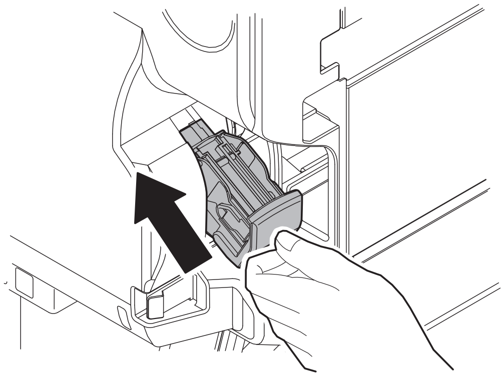


3) Installation of tee saddle tray and paper holding B.



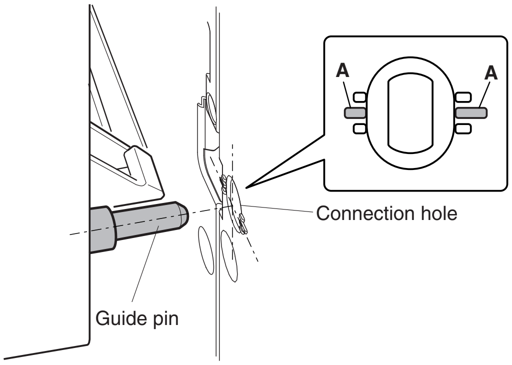
C. Staple cartridge installation

1) Insert the staple cartridge (package part No. 9).



D. Height adjustment of the finisher

1) Put the finisher closer to the main unit, and check to insure that the guide pin is smoothly inserted into the connection hole.

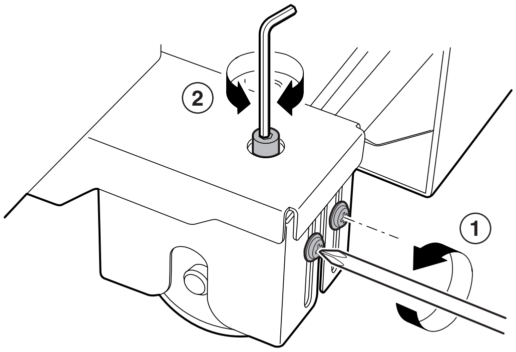


* If the guide pin is not inserted smoothly, perform the following adjustment.

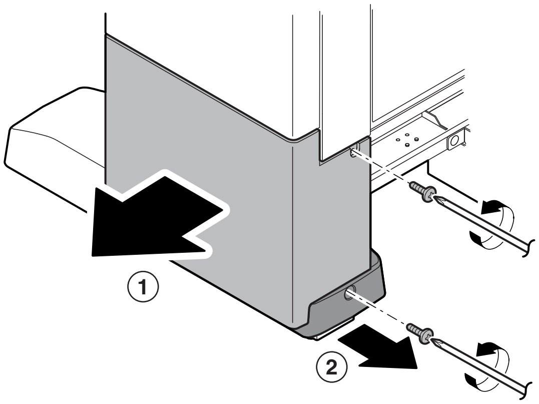
(1) When the guide pin is not fit with the connection hole in the finisher:

1) Loosen the fixing screw of the adjustment section on the rear side. Adjust the height adjustment screw so that the guide pin is fit with the connection hole in the finisher.

* By making space between the main body and ground, the adjustment screw can be turned by the finger.

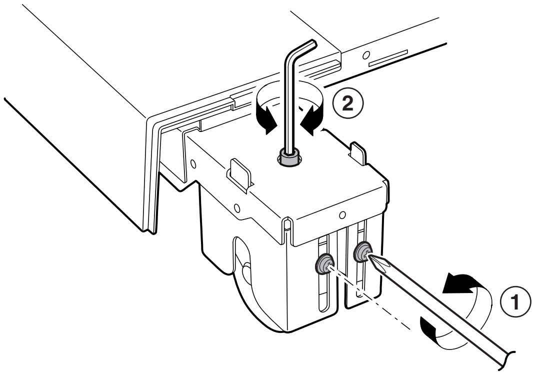


2) Remove the two screws, and remove the front under cover and foot cover.



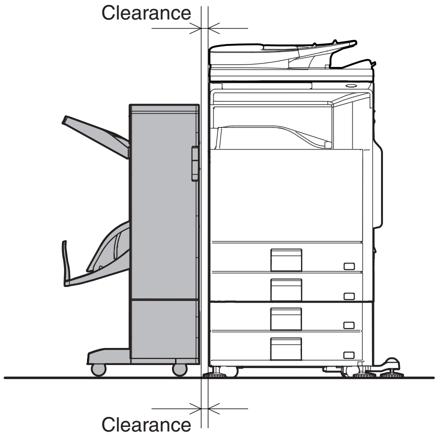
3) Loosen the fixing screw of the adjustment section on the front side. If the guide pin is inserted smoothly, tighten the fixing screws of the adjustment section on the front/rear sides.

* By making space between the main body and ground, the adjustment screw can be turned by the finger.

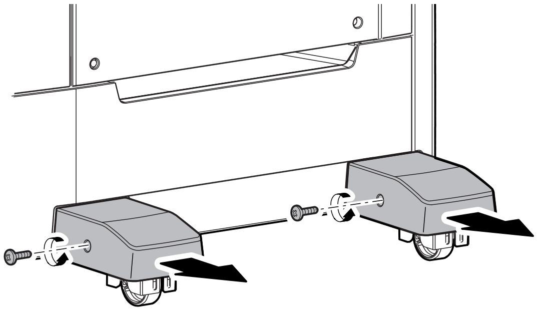


(2) When the guide pin is fit with the connection hole in the finisher:

1) Insert the finisher into the main unit. Check to insure that the upper and lower clearances between the main unit and the finisher are even.

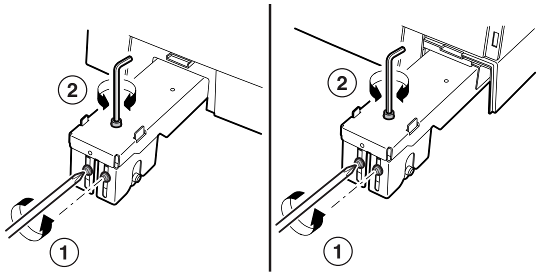


2) If the upper and lower clearances between the main unit and the finisher are not even, remove the screw (one for each) of the foot covers on the front/rear sides, and remove the foot cover.

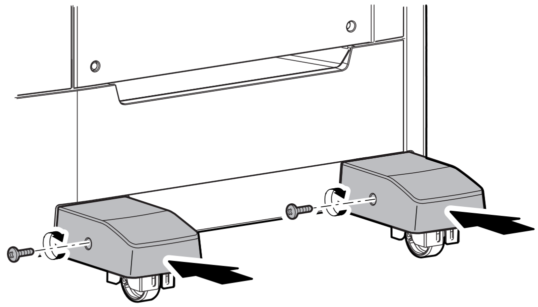


3) Loosen four fixing screws of the adjustment section, and turn the height adjustment screws on the front/rear sides to adjust so that the clearances are even.

   * By making space between the main body and ground, the adjustment screw can be turned by the finger.

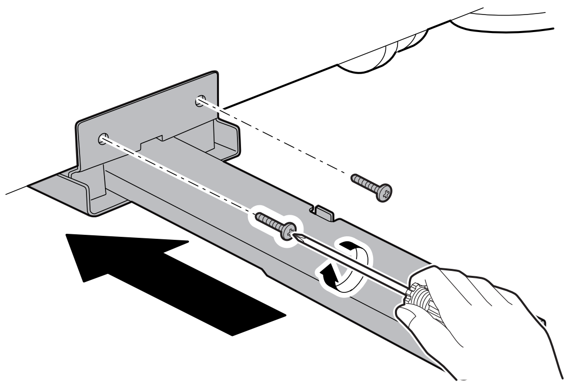


4) When the clearances are even, tighten the fixing screw of the adjustment section, and install the foot cover.

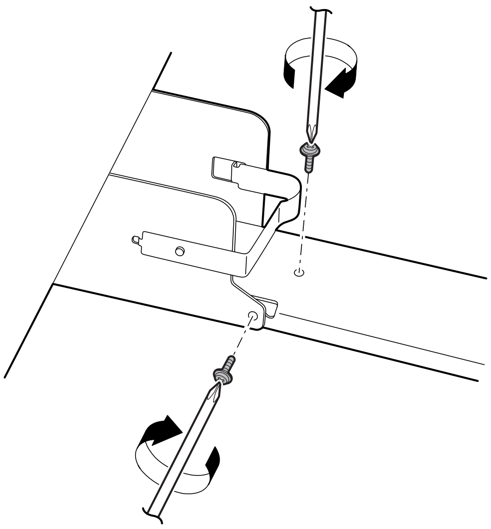


E. Connection of the main unit and saddle finisher

1) Fix the connection plate (package part No. 2) to the paper feed desk with fixing screws B (package part No. 7).

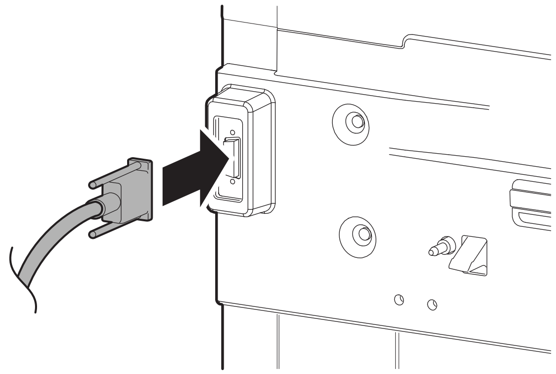


2) Install the rail bracket to the frame with fixing screws C (package part No. 8).

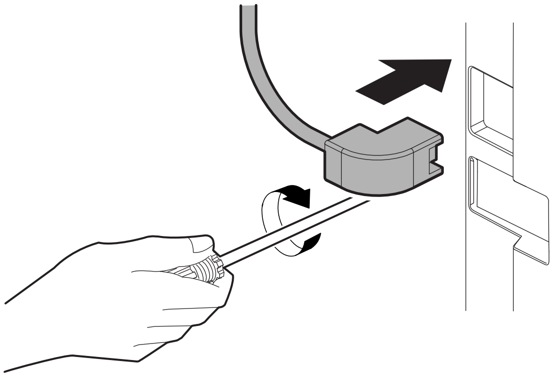


F. Connector connection

1) Connect the finisher connector with the connector of the interface pass unit, and tighten the screw.

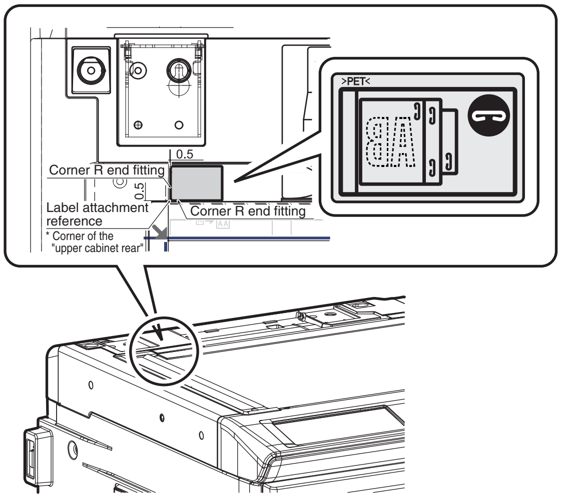


2) Connect the finisher connector with the connector of the main unit, and tighten the screw.

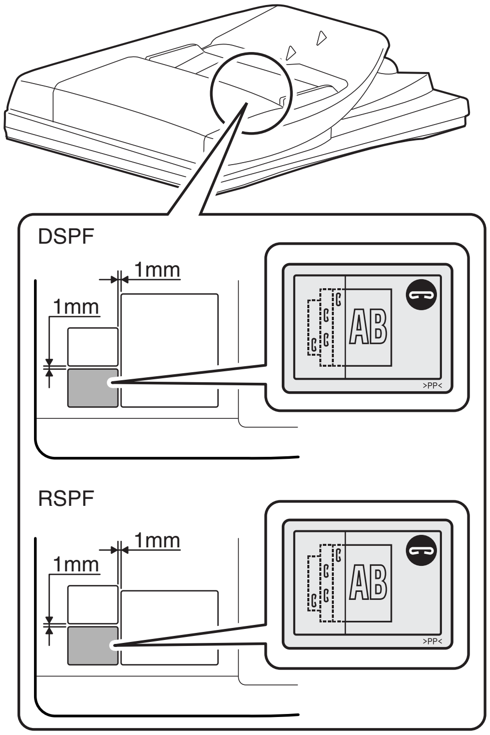


G. Staple position label attachment

1) Attach the label to the position indicated in the figure.
[For scanner] (package part No. 10)

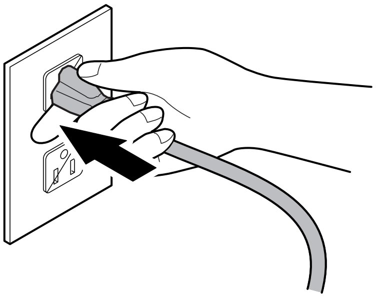

0.5
0.5
Corner R end fitting
Label attachment reference
* Corner of the "upper cabinet rear"
Corner R end fitting
>PET<

[For DSPF/RSPF] (package part No. 11)

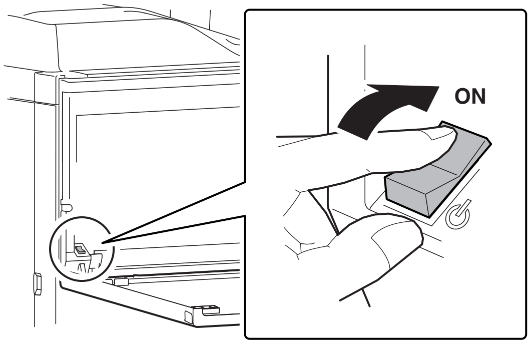

DSPF
1mm
1mm
>PP<
RSPF
1mm
1mm
>PP<

H. Turn on the power of the main unit

1) Insert the power plug of the main unit into the power outlet.



2) Open the front cabinet.
Turn ON the power switch in the front cabinet of the main unit.

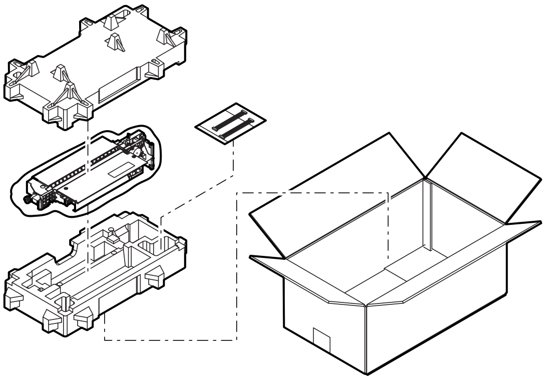


3) Turn ON the power switch on the operation panel.

[8] MX-PNX5A/B/C/D

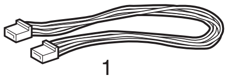
1. Unpacking

A. Removal of the punch unit

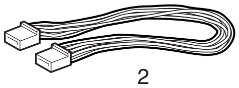


B. Check the packed items

1) Check that all the items are included in the package.



1



2

3

No.	Packed part names	Quantity
1	Harness A (Purple)	1
2	Harness B (Gray)	1
3	Punch jam processing label	1

* Use the punch position labels bundled with the MX-FN10.

2. Installation

<Note before installation>

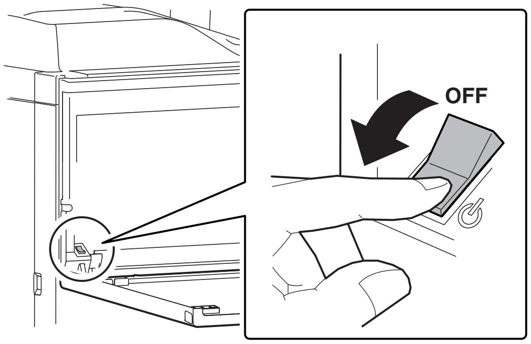
* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

A. Turn off the power of the main unit

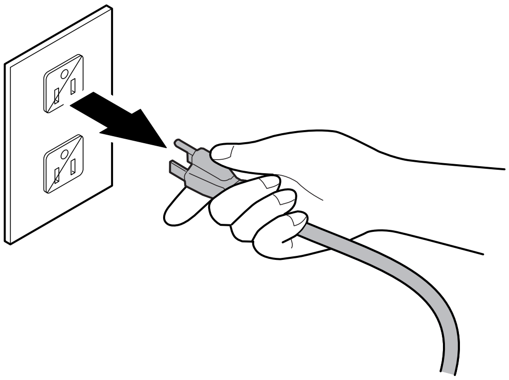
1) Turn OFF the power switch on the operation panel.

2) Open the front cabinet.

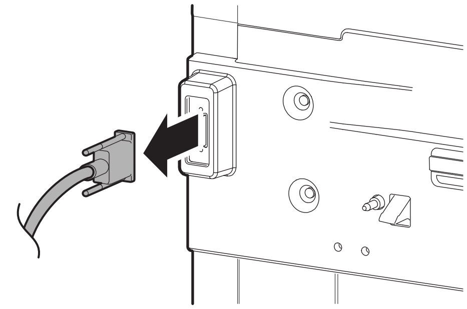
Turn OFF the power switch in the front cabinet of the main unit.

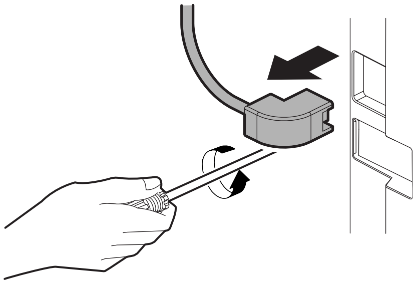


3) Disconnect the power plug of the main unit from the power outlet.



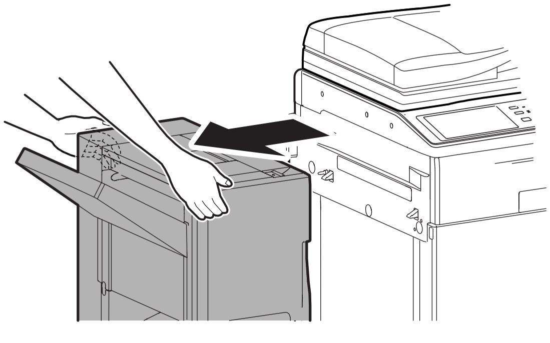
4) Disconnect the connector between the main unit and the saddle finisher.



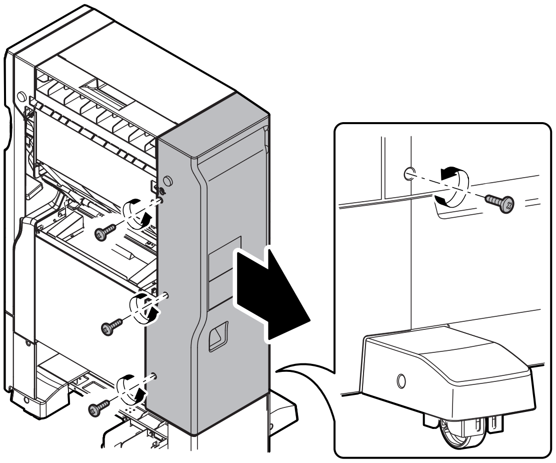


B. Installation of the punch unit

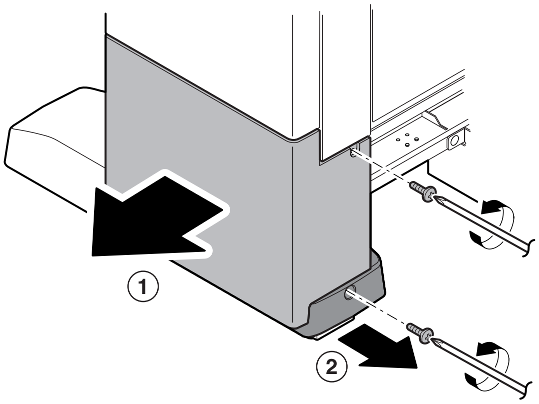
1) Release the lock and separate the saddle finisher from the main unit.



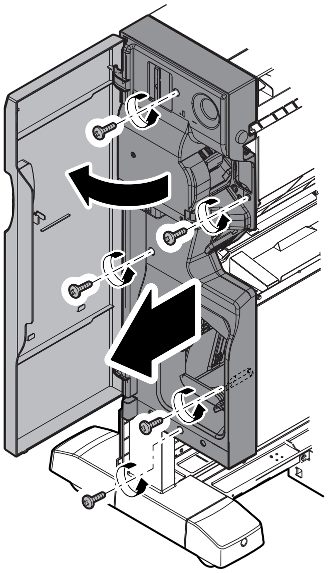
2) Remove the screw, and remove the rear cover.



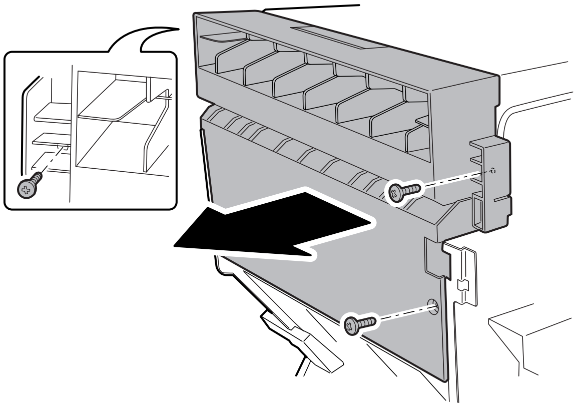
3) Remove the screw, and remove the front lower cover.



4) Open the front cover. Remove the screw, and remove the front inner cover.



5) Remove the screw, and remove the dummy punch guide.



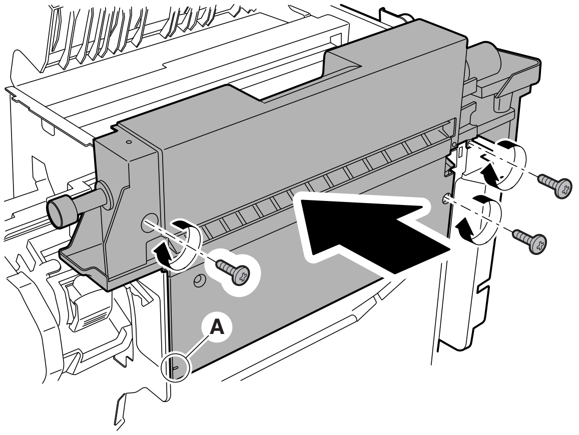
6) Install the punch unit to the saddle finisher.

Fix the punch unit with the screw which was removed from the dummy punch guide.

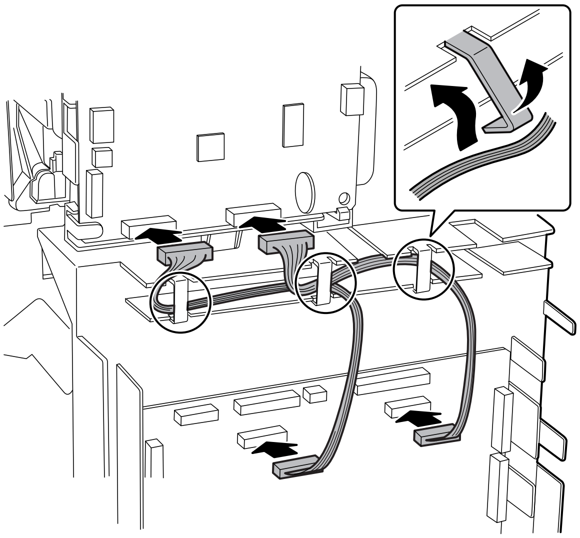
* Before installing, remove the dust box.

* Check to confirm that the punch guide pin is securely inserted into the guide pin insertion hole of the finisher.

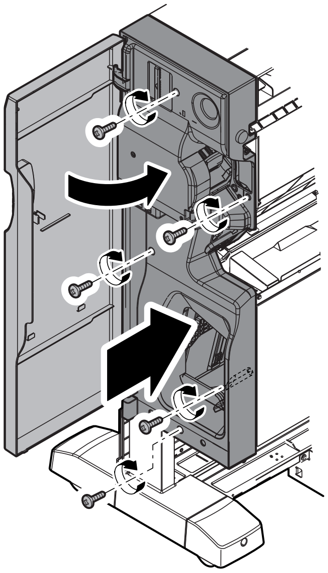
* Check to confirm that the pawl (A) is engaged with the plate frame.



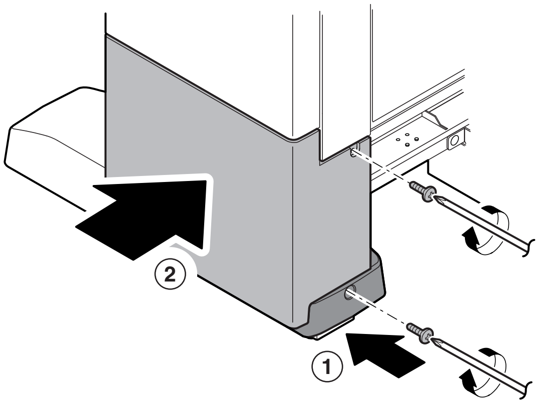
7) Connect the harness on the punch unit side with the PWB on the finisher side.



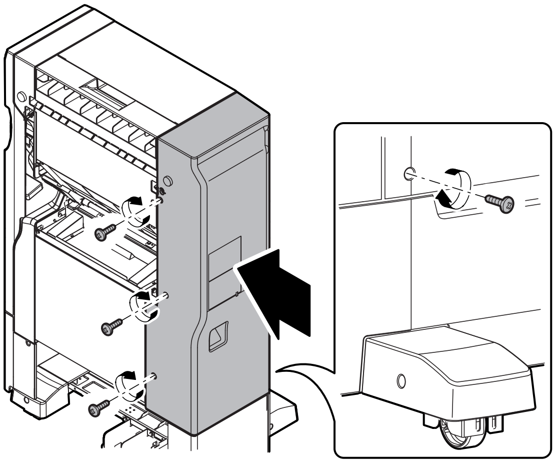
8) Fix the front inner cover with screws, and close the front cover.



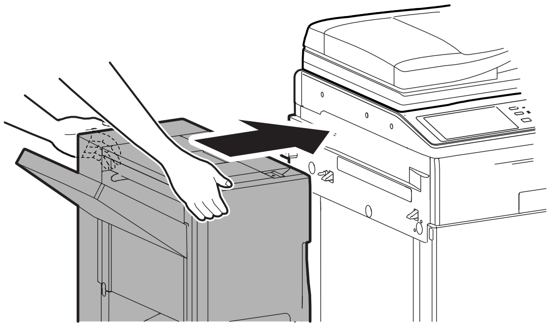
9) Fix the front lower cover with a screw.



10) Fix the rear cover with a screw.

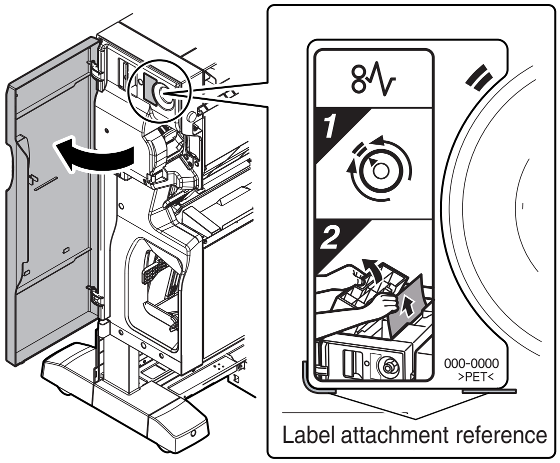


11) Install the saddle finisher to the main unit.



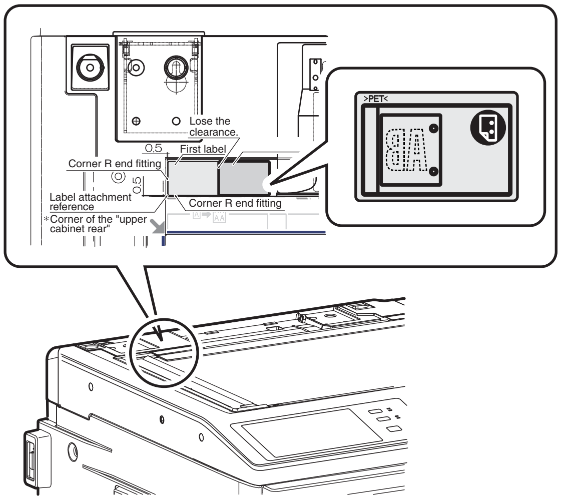
C. Punch jam processing label attachment

1) Open the front cover, apply the punch jam processing label (package part No. 3) in position as shown in the figure.

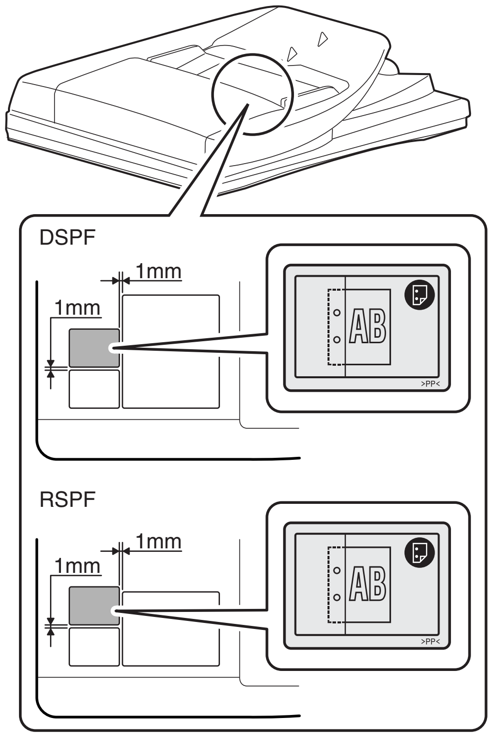

1
2
000-0000
>PET<
Label attachment reference

D. Punch position label attachment

1) Attach the label to the position indicated in the figure.
[For scanner]

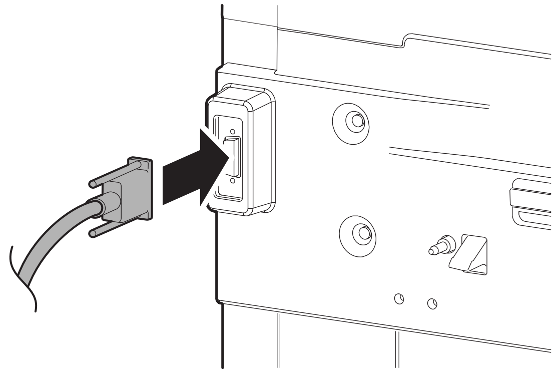

>PET<
Lose the clearance.
0.5
First label
Corner R end fitting
0.5
Label attachment reference
∗Corner of the "upper cabinet rear"
Corner R end fitting

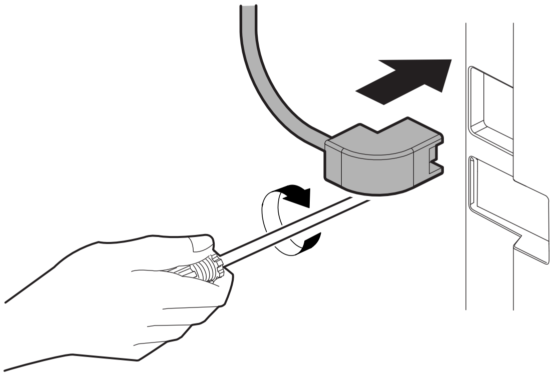
[For DSPF/RSPF]


DSPF
1mm
1mm
AB
>PP<
RSPF
1mm
1mm
AB
>PP<

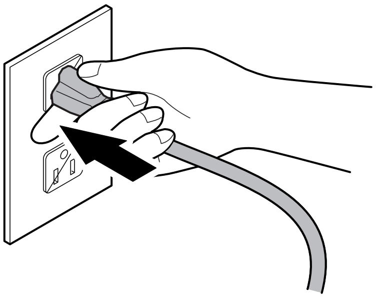
E. Turn on the power of the main unit

1) Connect the connector.

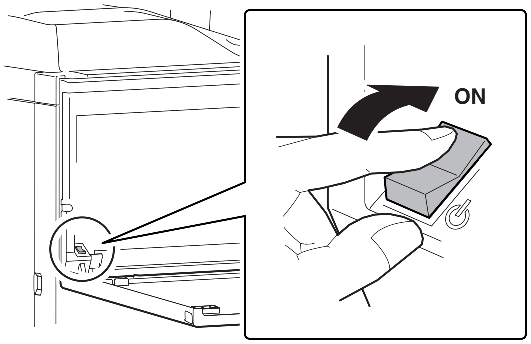




2) Insert the power plug of the main unit into the power outlet.



3) Open the front cabinet.
Turn ON the power switch in the front cabinet of the main unit.



4) Turn ON the power switch on the operation panel.

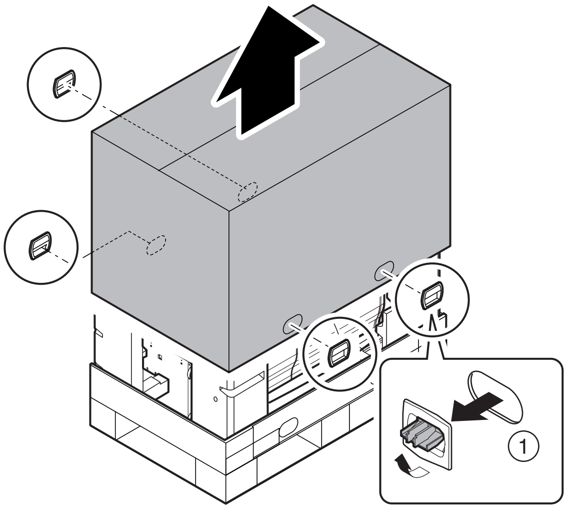
[9] MX-FN11

1. Unpacking

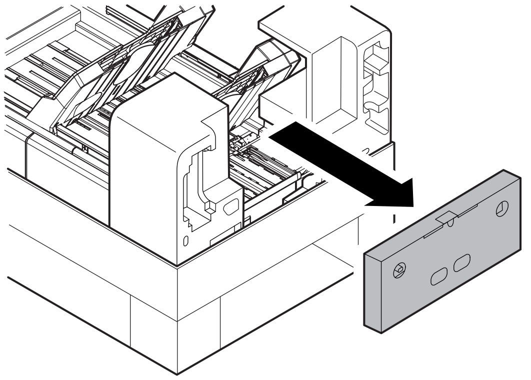
A. Removal of the finisher

* For removal of the finisher, manpower of two persons or more is required.

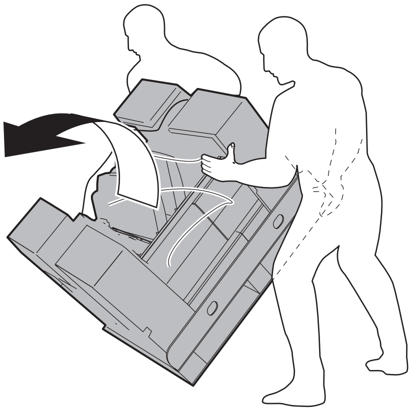
1) Remove the fixing material, and remove the top case.



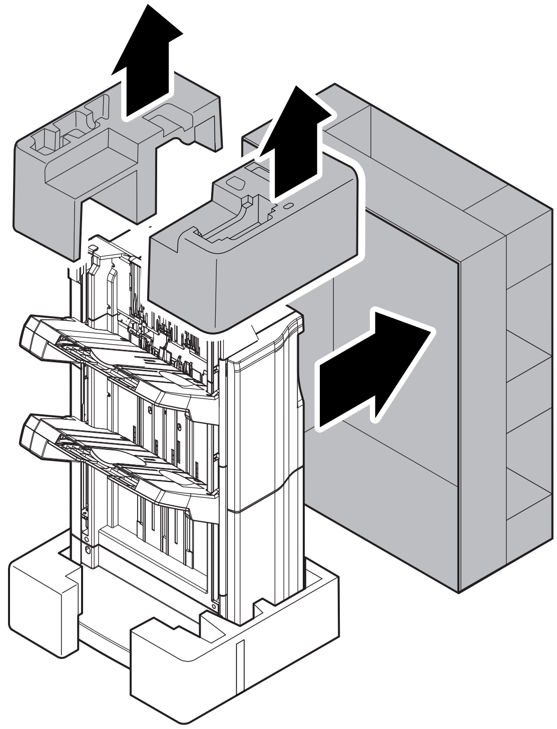
2) Remove the bundled items from packing cushion.



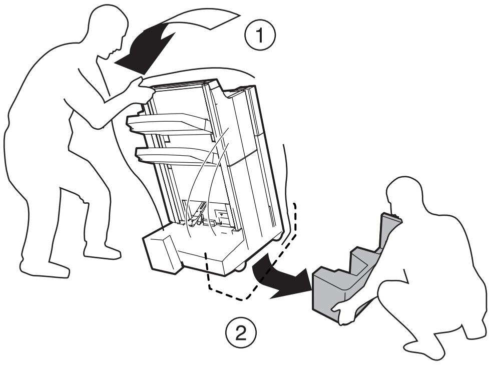
3) Holding the upper part of the saddle stitch finisher by two people, pull up the saddle stitch finisher, and make it stand upright. (Be careful to sliding worker's foot.)



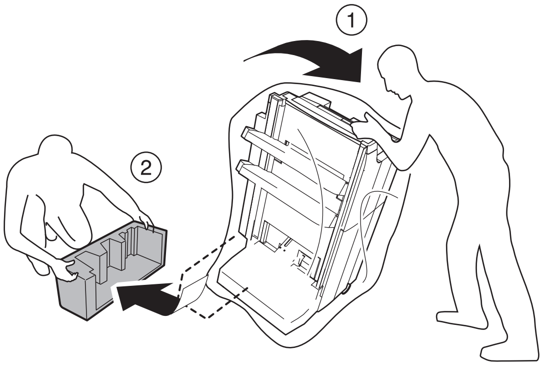
4) Remove the skid and packing cushions.



5) One person tilt the finisher, another person remove the lower tray.

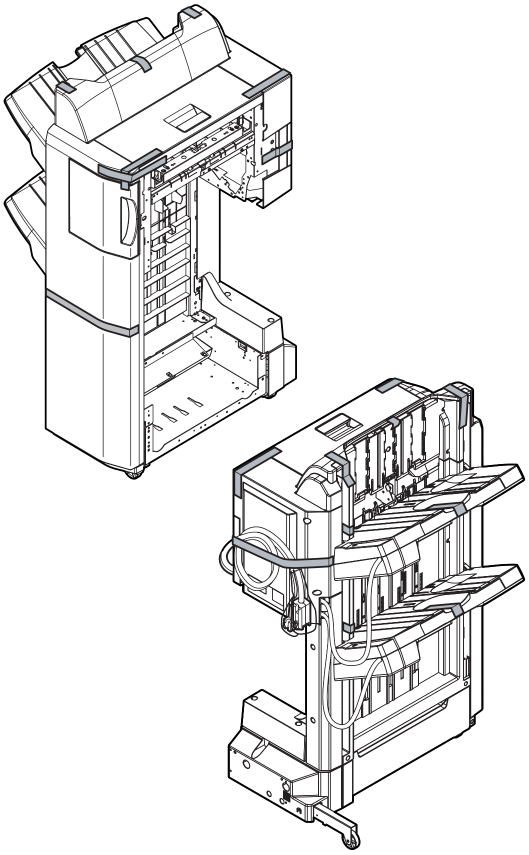


6) Remove the other side similarly.

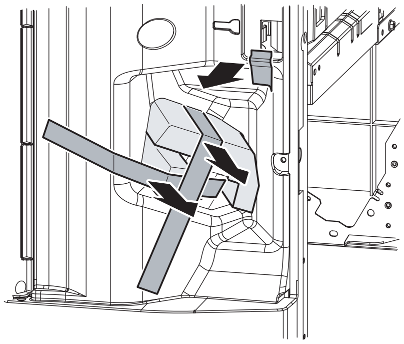


B. Removal of the protection material

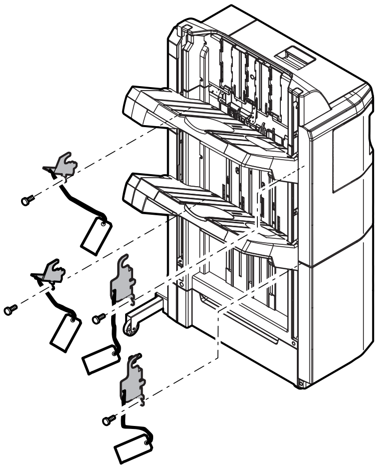
1) Remove the fixing tapes and protection material.



2) Open the front upper door, and remove the fixing tapes and protection material.

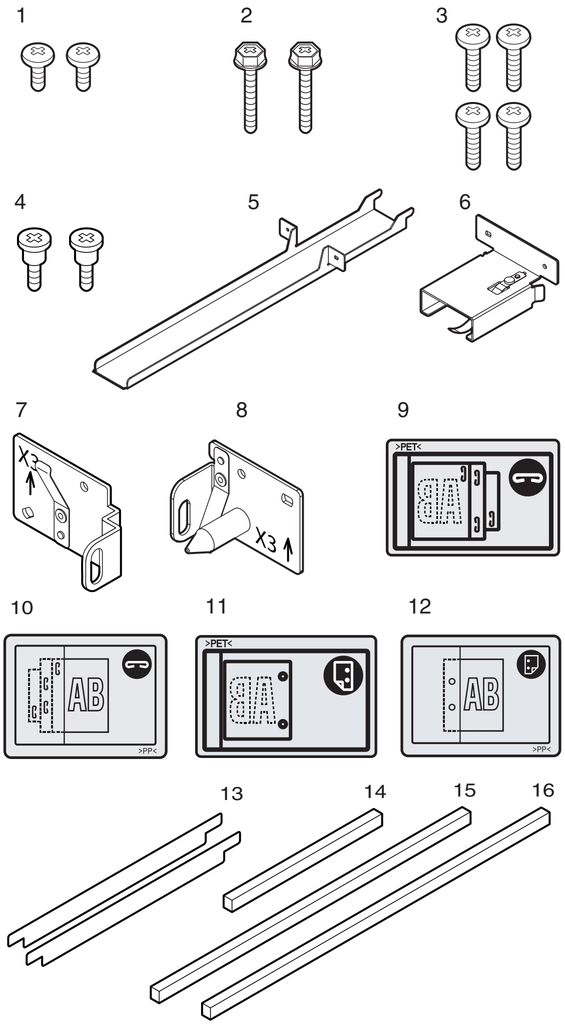


3) Remove the screws and remove the fixing material for the paper exit tray. (four positions)



C. Check the packed items

1) Check that all the items are included in the package.



No.	Names of bundles	Quantity
1	Binding head round tapping M4x8	2
2	IT tapping M4x20	2
3	Binding head M4x12	4
4	Step screw B	2
5	Rail	1
6	Rail reception sheet metal	1
7	Connection fixture F (for x3)	1
8	Connection fixture R (for x3)	1
9	Staple position label (For scanner)	1
10	Staple position label (For RSPF/DSPF)	1
11	Punch position label (For scanner)	1
12	Punch position label (For RSPF/DSPF)	1
13	Guide mylar	2
14	Cushion (S)	1
15	Cushion (M)	1
16	Cushion (L)	1

* The punch position labels (No.11 and No.12) should be kept at hand since they will be necessary when installing the punch unit.

2. Installation

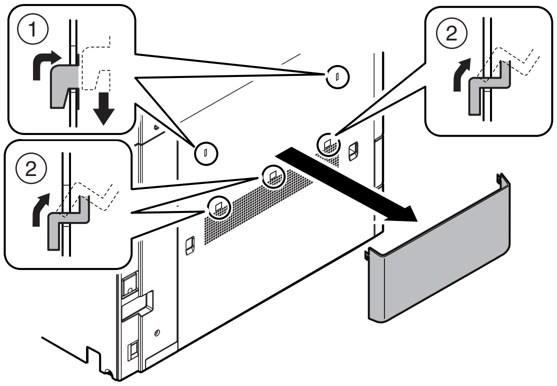
<Note before installation>

* Installing the MX-FN11 requires that the option desk (MX-DEX8/DEX9) and junction unit (MX-RBX3) be installed in advance. Be sure to complete the installation of the option desk (MX-DEX8/DEX9) and junction unit (MX-RBX3) before installing the finisher.

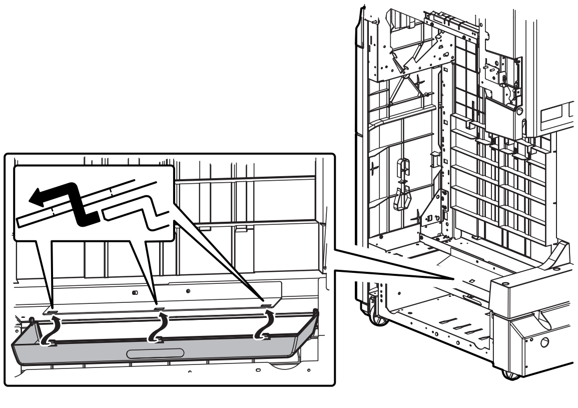
* When the MX-FN11 and MX-PNX6A/B/C/D is installed at the same time, first install the MX-PNX6A/B/C/D, and then install the MX-FN11.

A. Replacement of the Operation Manual storage cover

1) Remove the Operation Manual storage cover on the left side of the machine.

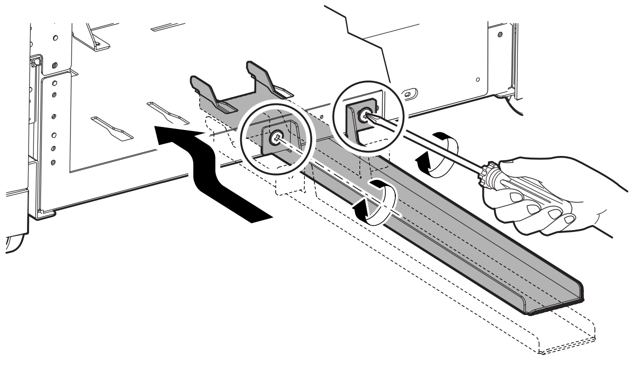


2) Install the Operation Manual storage cover (which was removed from the machine) to the finisher.

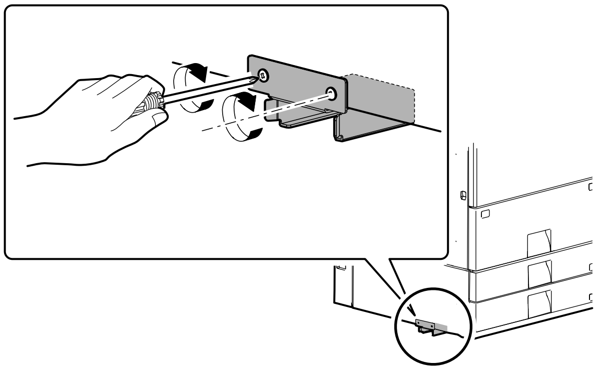


B. Installation of the rail

1) Install the rail (Package part No. 5) to the finisher with the fixing screws (Package part No. 1).

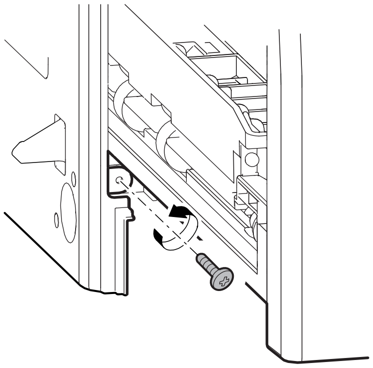


2) Install the rail reception sheet metal (Package part No. 6) to the main unit with the fixing screws (Package part No. 2).

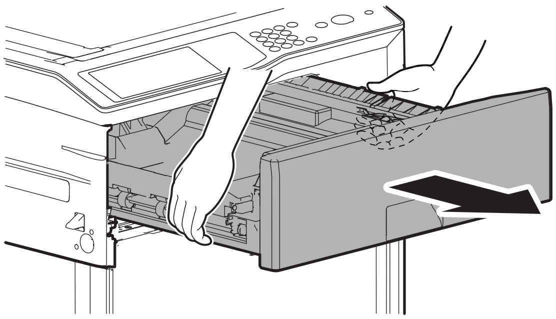


C. Removal of the paper pass latch reception parts and the positioning pin

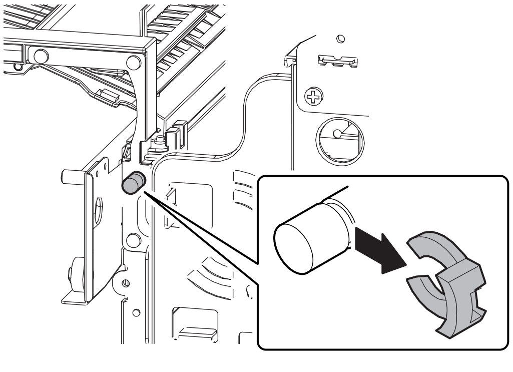
1) Remove the screw, and release the paper pass disconnection preventing lever.



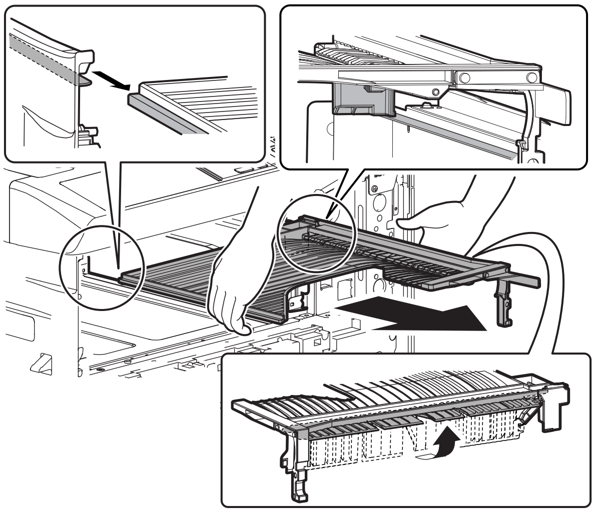
2) Remove the paper pass unit.



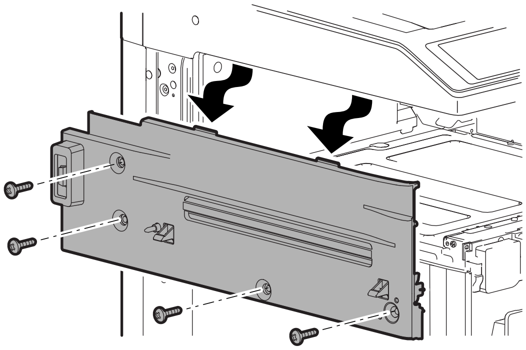
3) Remove the resin E-ring that secures the reverse tray.



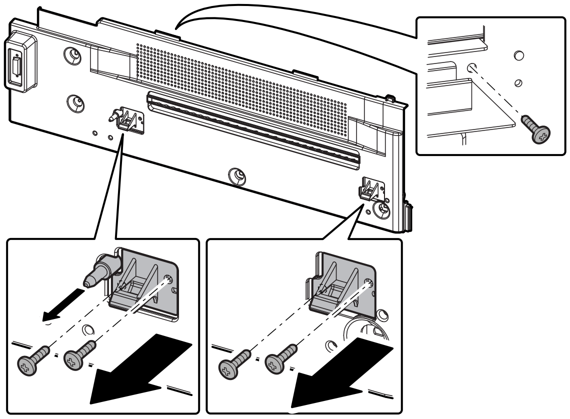
4) Remove the reverse tray.



5) Remove the screws, and remove the interface left cabinet.

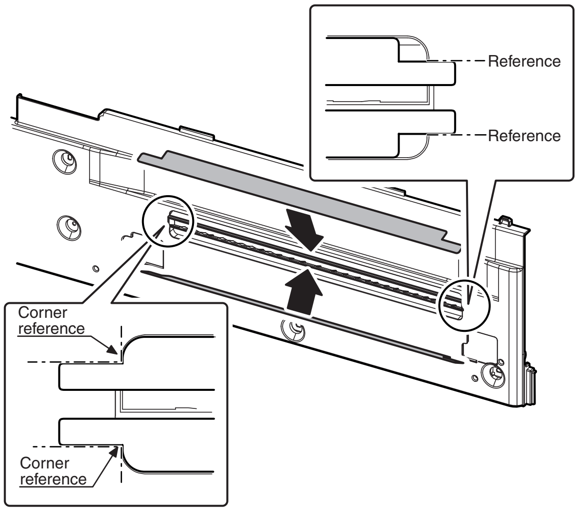


6) Remove the screws, and remove the paper pass latch reception parts and the positioning pin.



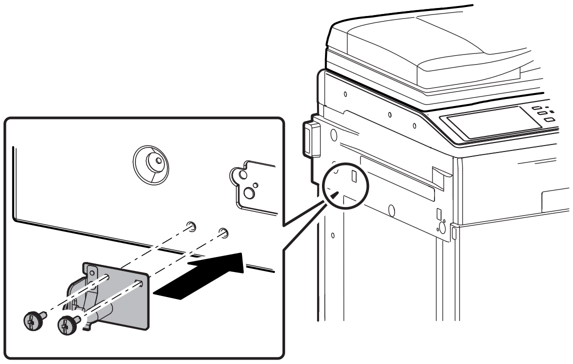
D. Attaching the mylar

1) Attach the mylar (package part No.13) to the position indicated in the figure.

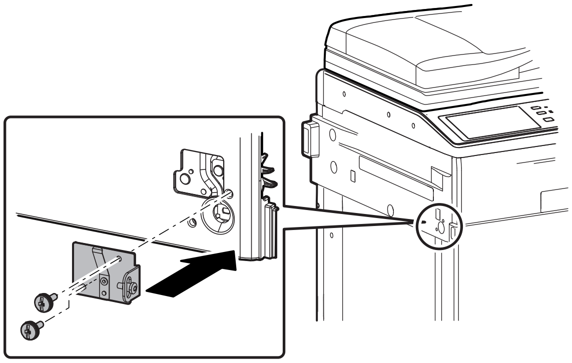


E. Installation of the connection fixture F/R

1) Install the connection fixture R (Package part No. 8) to the main unit with the fixing screws (Package part No. 3).

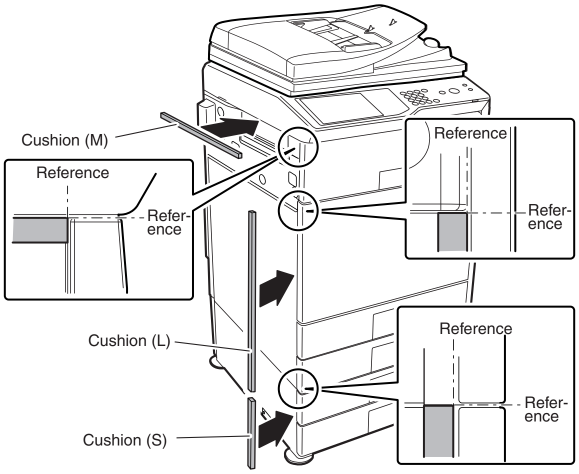


2) Install the connection fixture F (Package part No. 7) to the main unit with the fixing screws (Package part No. 3).



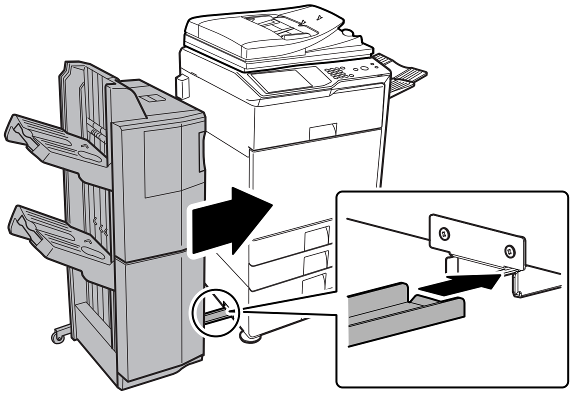
F. Attaching the cushion

1) Attach the cushion (S) (package part No.14), the cushion (M) (package part No.15) and the cushion (L) (package part No.16) to the position indicated in the figure.

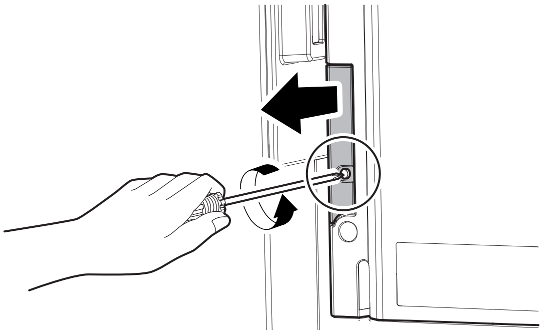


G. Check of the connected position of main unit and finisher

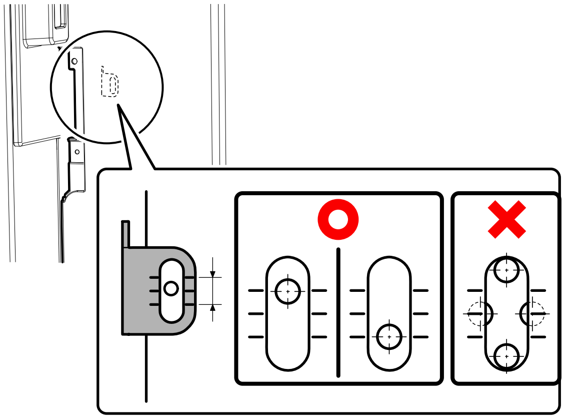
1) Insert the rail of the finisher into the slit on the rail reception sheet metal of the main unit, install the finisher.



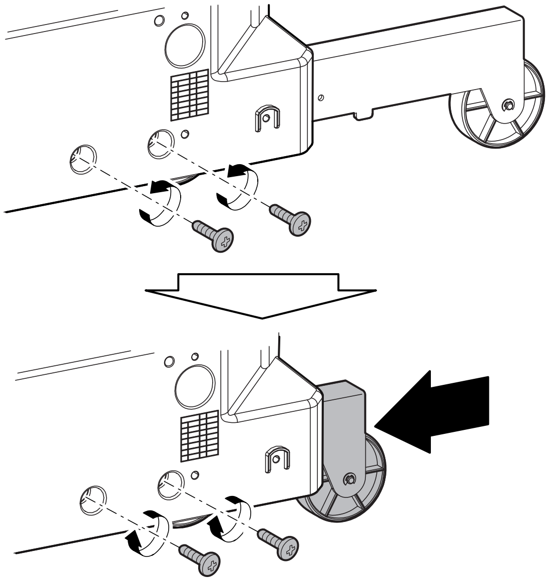
2) Remove the screw, and remove the connector cover on rear side of the finisher.



3) Check that the center of the screw hole of the finisher is in the range of specification of an oval hole of the connection fixture that exist on main body rear side.

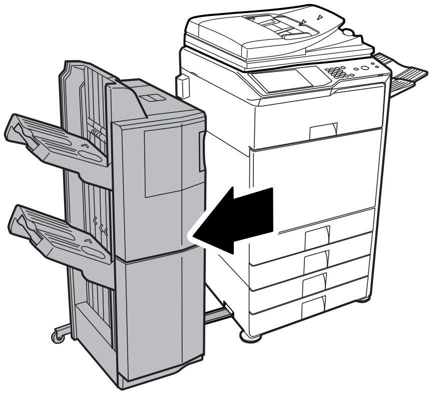


* When not the range of specification, progress to the procedure of "H. Adjustment".
If the adjustment is not required, remove the screws from the screw hole directly and push the caster into it until the installation fixing.

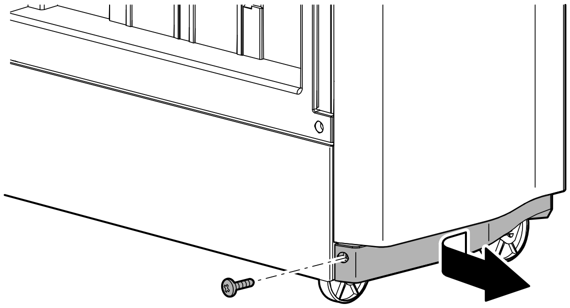


H. Adjustment

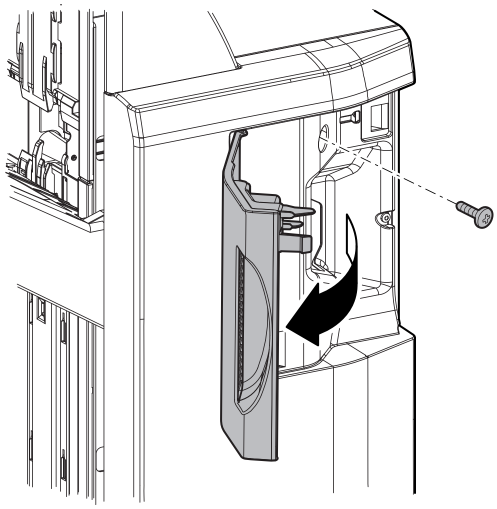
1) Remove the finisher from the main unit.



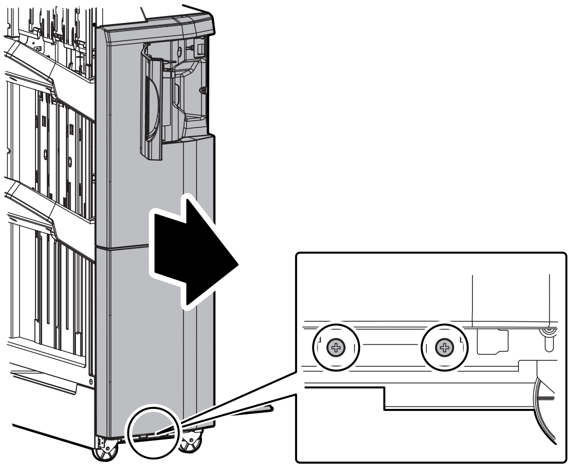
2) Remove the screw, slide to the left the front lower cover, and remove it.



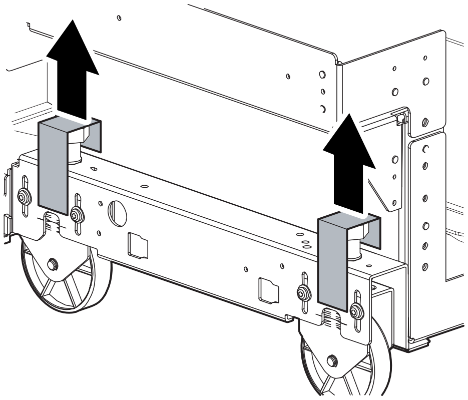
3) Open the front upper door, and remove the screw.



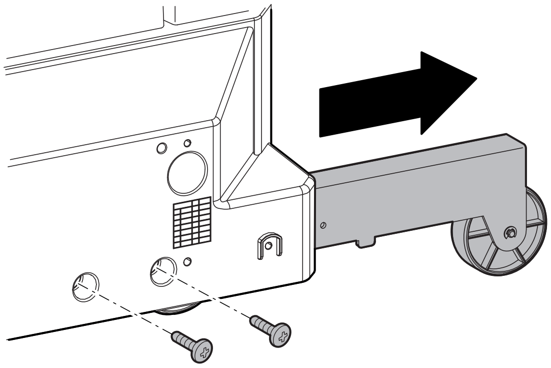
4) Remove the screws, and open the front cover.



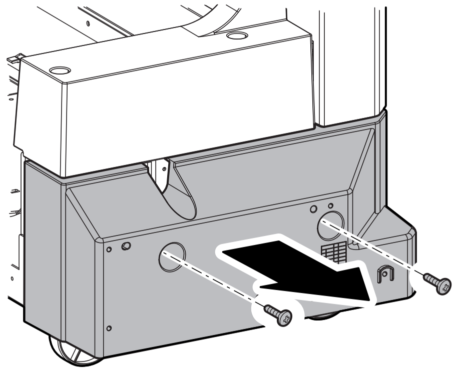
5) Remove the fixing tapes.



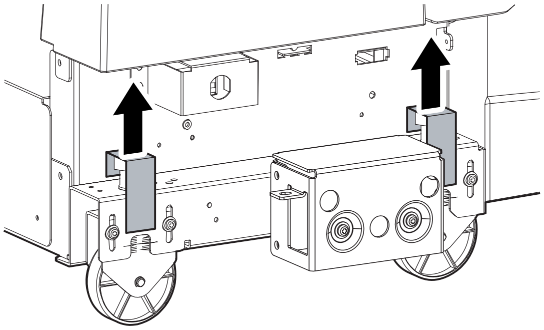
6) Remove the screws, and remove the auxiliary wheels.



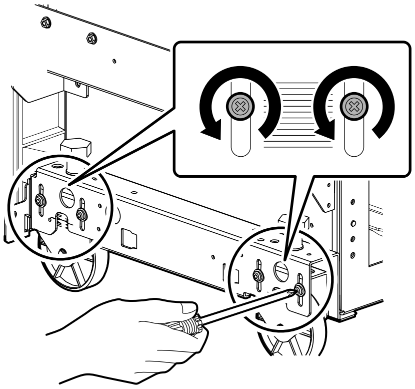
7) Remove the screws, and remove the rear lower cover.

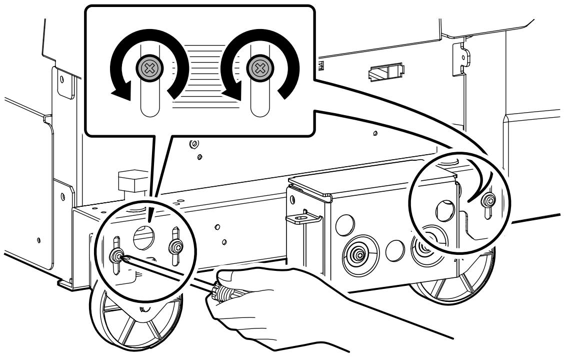


8) Remove the fixing tapes.

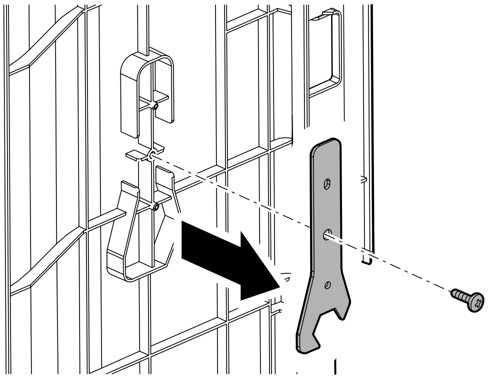


9) Loosen both of the caster fixing screws of the front side and rear side.

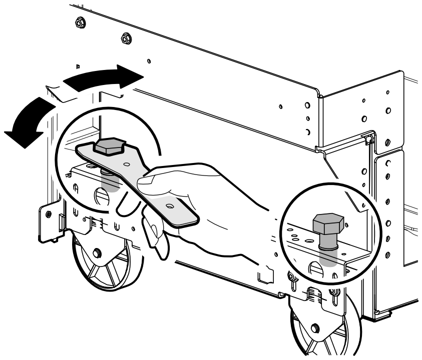


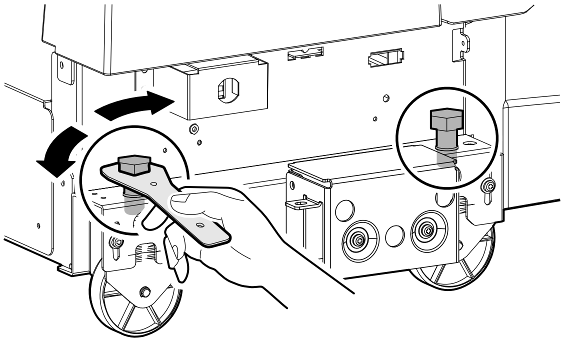


10) Remove the screw, and remove the spanner installed inside the front lower door.

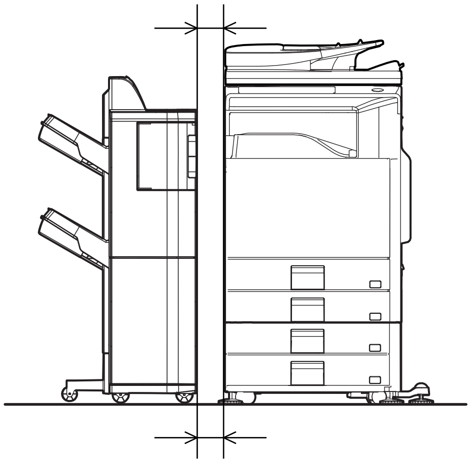


11) Turn the bolt for which the adjustment is necessary, and adjust to become it within the range of specification.

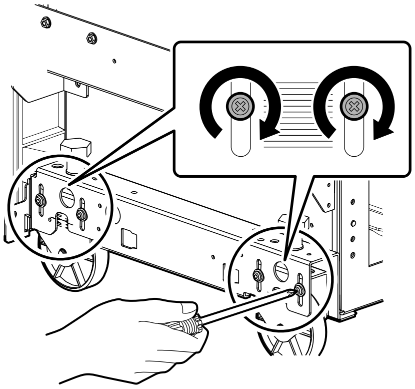


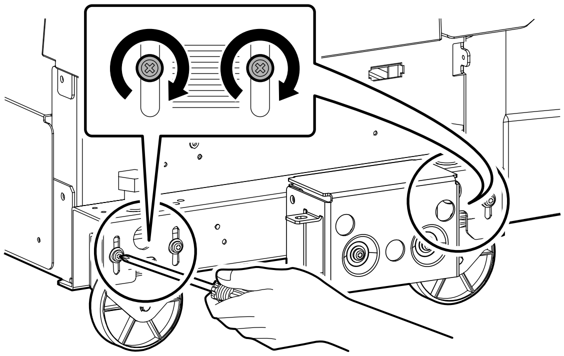


12) Check to insure that the upper and lower clearances between the main unit and the finisher are even.

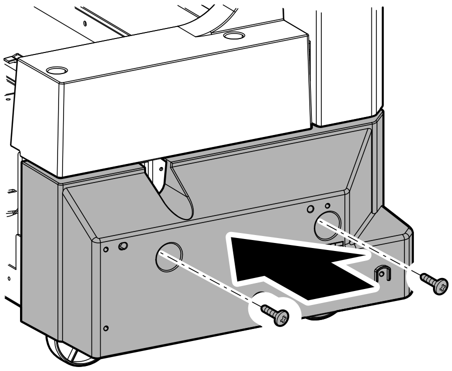


13) Tighten the caster fixing screws so that the indicator scale is fit.

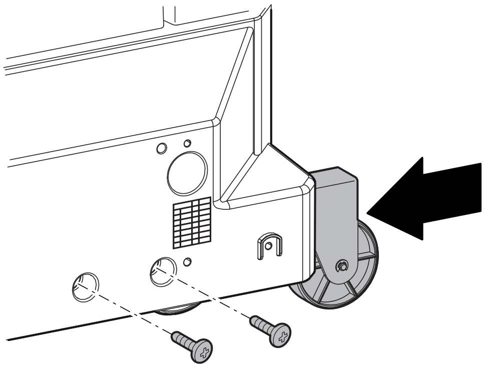




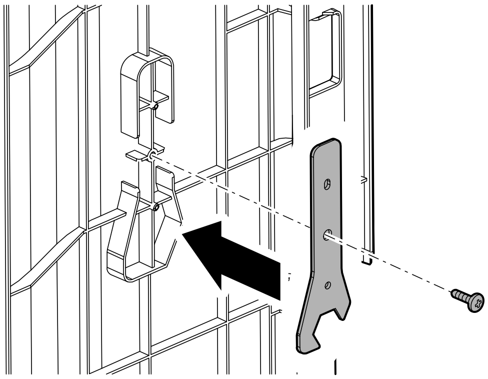
14) Install the rear lower cover with the fixing screws.



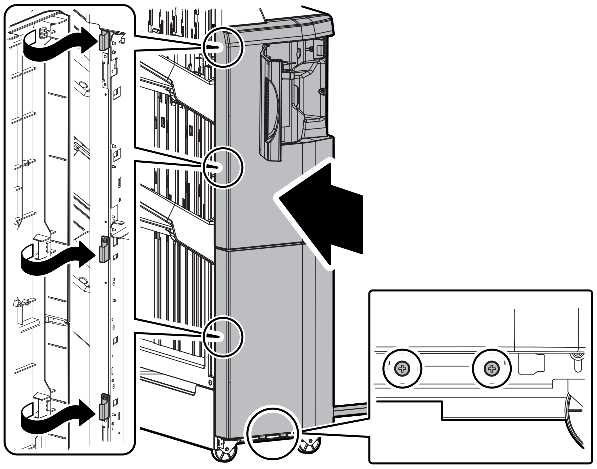
15) Install the auxiliary wheels with the fixing screws.



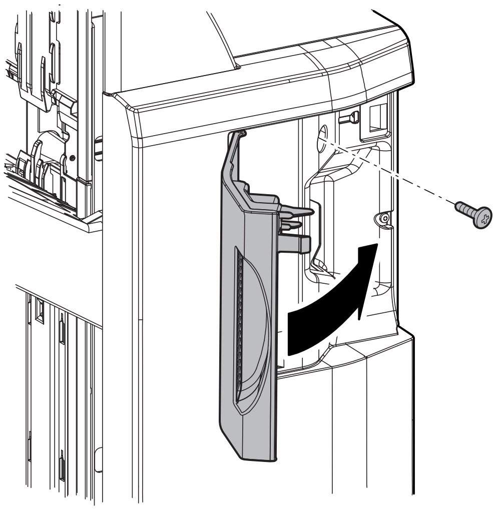
16) Install the spanner for adjustment to inside the front lower door.



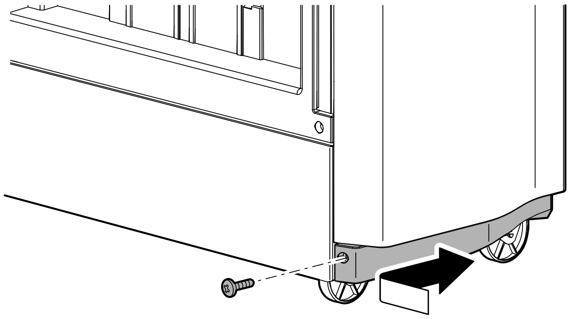
17) Close the front cover, and secure it with the fixing screws.



18) Attach the fixing screw, and close the front upper door.

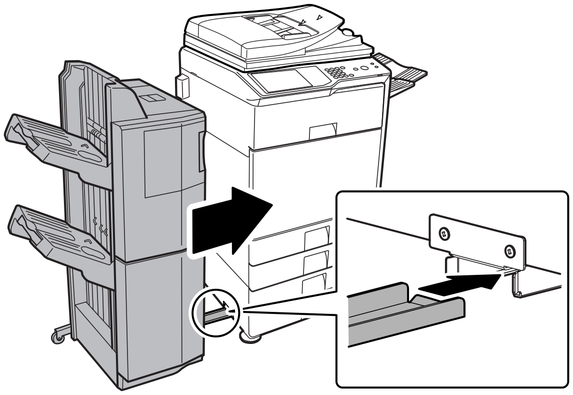


19) Attach the front lower cover with the fixing screw.

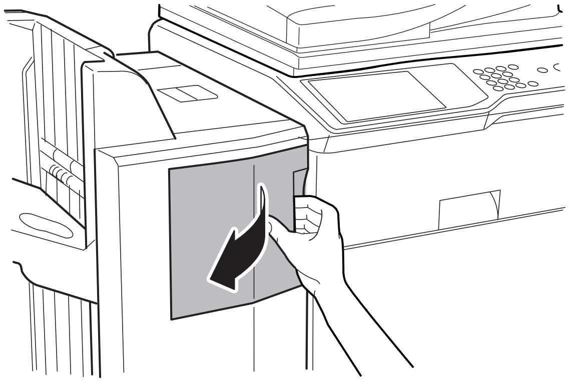


I. Connection of the finisher

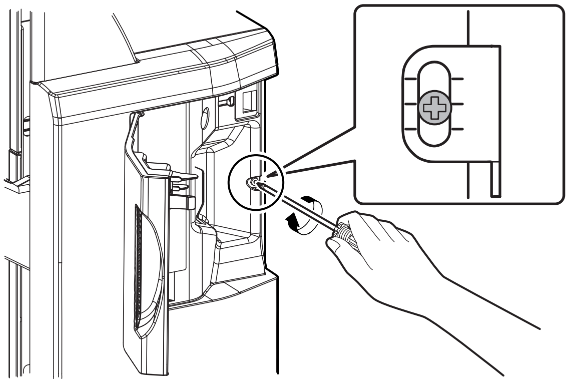
1) Engage the finisher to the main unit.



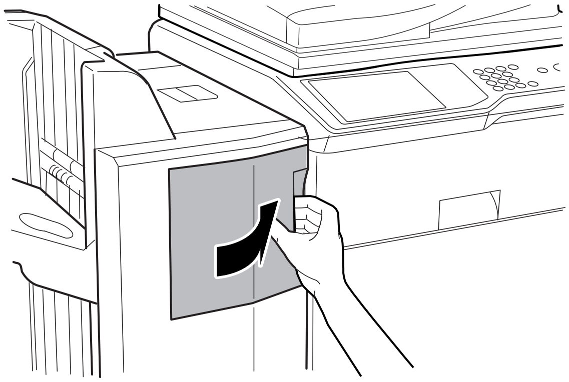
2) Open the front cover of finisher.



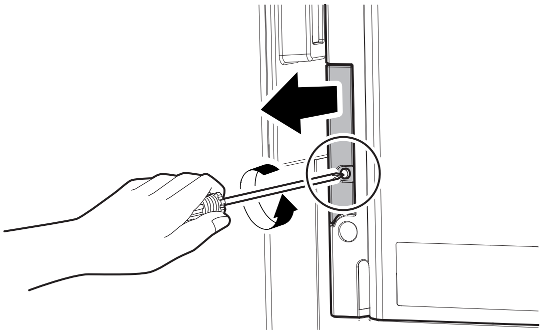
3) Fix the finisher to the main unit with the step screw B (Package part No. 4).



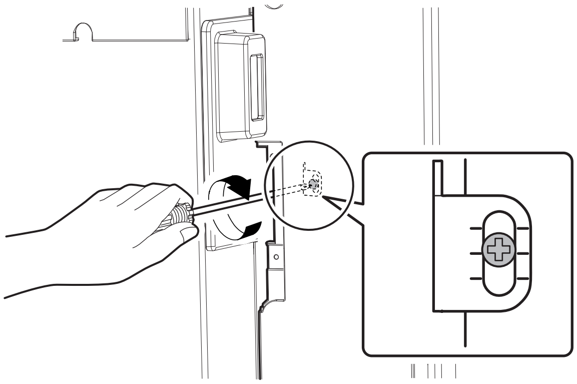
4) Close the front cover.



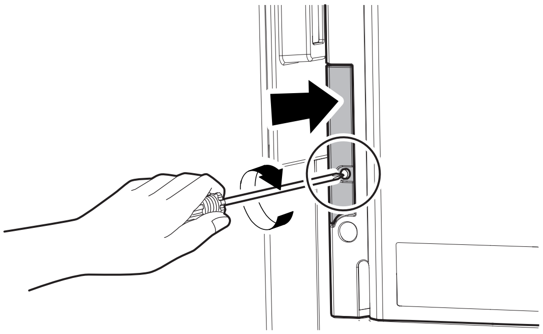
5) Remove the screw, and remove the connector cover on rear side of the finisher.



6) Install the Step screw B (Package part No. 4).

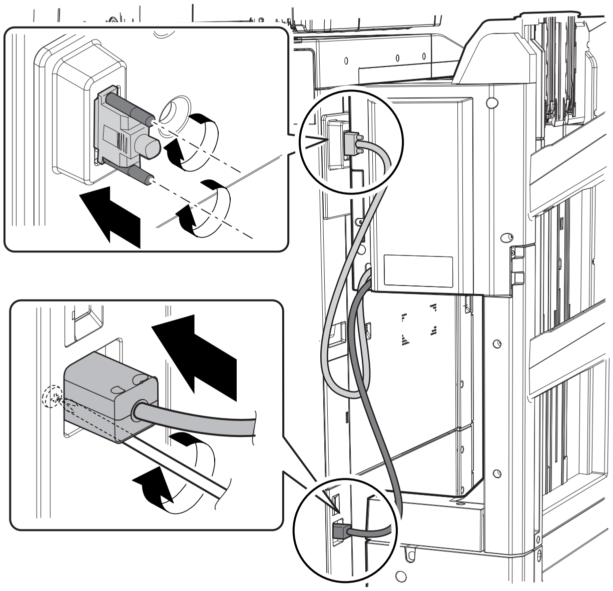


7) Attach the connector cover on rear side of the finisher.



J. Connection of connector to the main unit

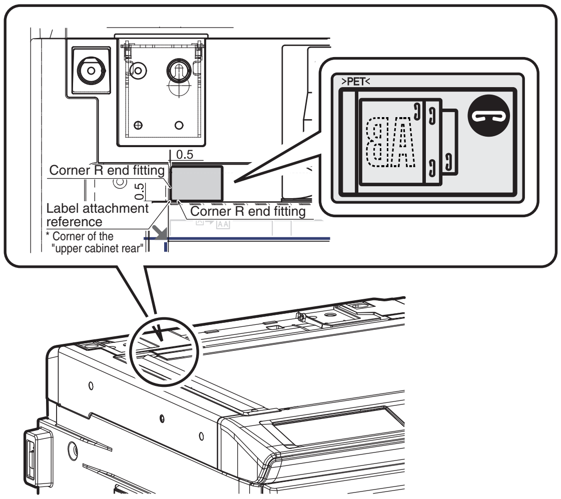
1) Connect two connectors of the finisher to the main unit, and tighten the screws.



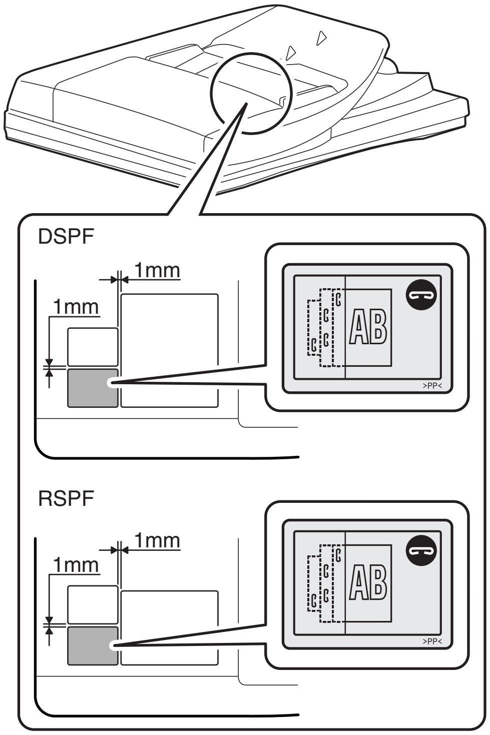
K. Staple position label attachment

1) Attach the label to the position indicated in the figure.

[For scanner] (Package part No. 9)

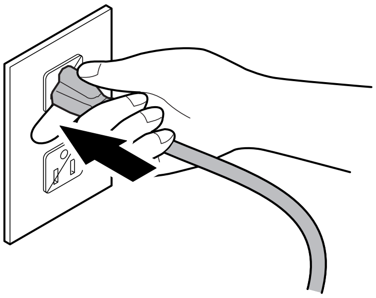

>PET<
0.5
Corner R end fitting
0.5
Label attachment reference
Corner R end fitting
* Corner of the "upper cabinet rear"

[For DSPF/RSPF] (Package part No. 10)

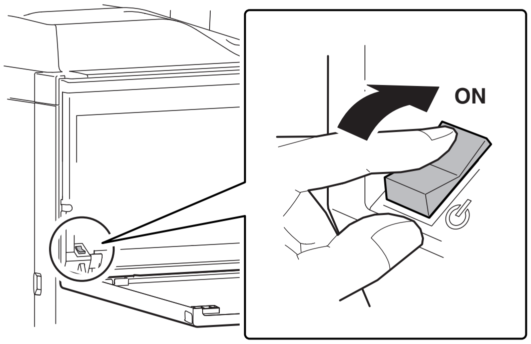

DSPF
1mm
1mm
>PP<
RSPF
1mm
1mm
>PP<

L. Turn ON the main power switch of the main unit

1) Connect the power plug of the main unit into the power outlet.



2) Open the front cabinet of the main unit. Turn ON the power switch in the front cabinet.



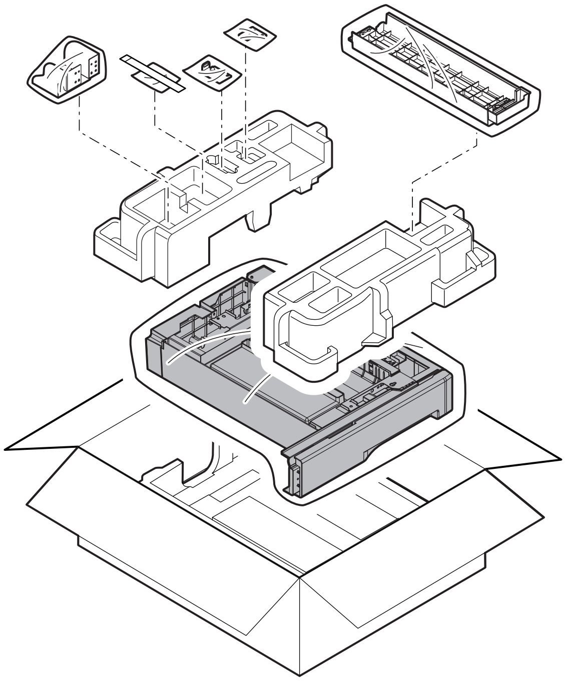
3) Turn ON the power switch on the operation panel.

[10] MX-PNX6A/B/C/D

1. Unpacking

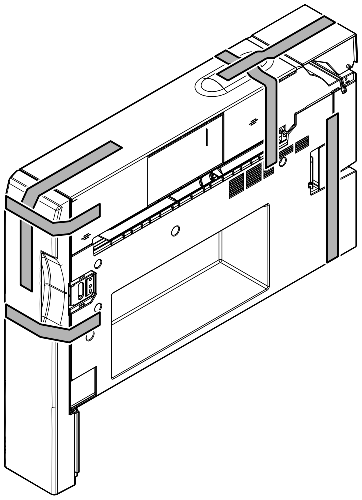
A. Pulling out of the punch unit

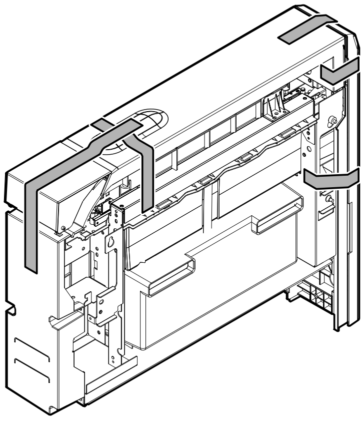
1) Pull out the punch unit.



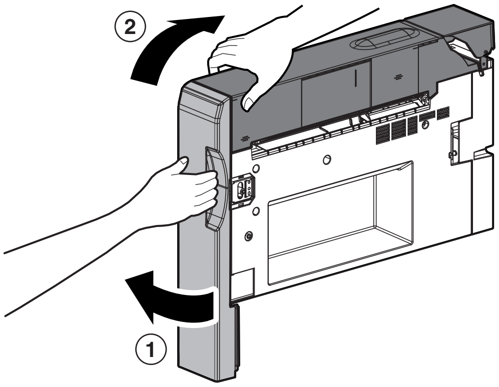
B. Removal of the protection material

1) Remove the fixing tape and protection material.

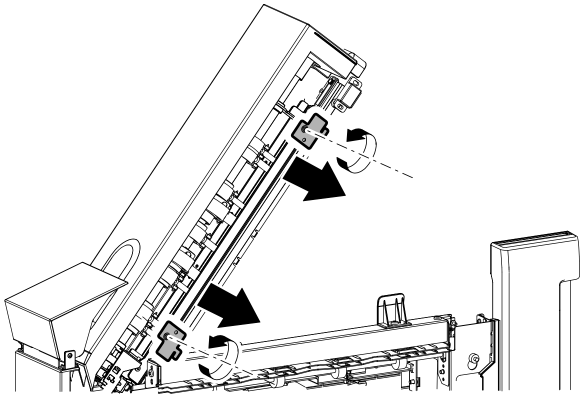




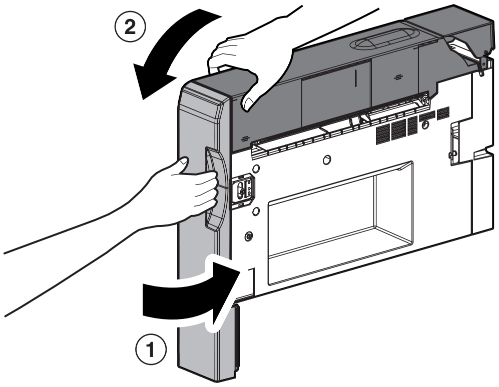
2) Open the front cover, and open the top cover.



3) Remove the screws, and remove the fixing material. (2 positions)

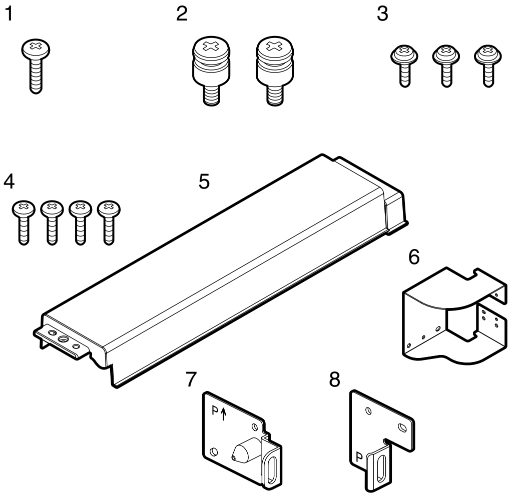


4) Close the top cover, and close the front cover.



C. Check the packed items

1) Check that all the items are included in the package.



No.	Names of bundles	Quantity
1	P tight M4x12	1
2	Step screw A	2
3	Cap screw M3x6	3
4	Binding head M4x12	4
5	Front cover	1
6	Front cover mounting fixture	1
7	Connection fixture F (for punch)	1
8	Connection fixture R (for punch)	1

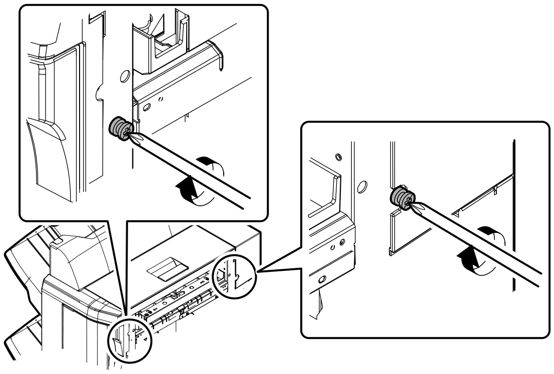
2. Installation

<Note before installation>

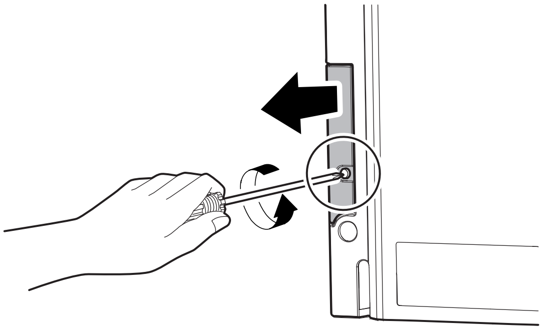
* Before installing the MX-PNX6A/B/C/D, unpack the MX-FN11.

A. Installation of punch unit

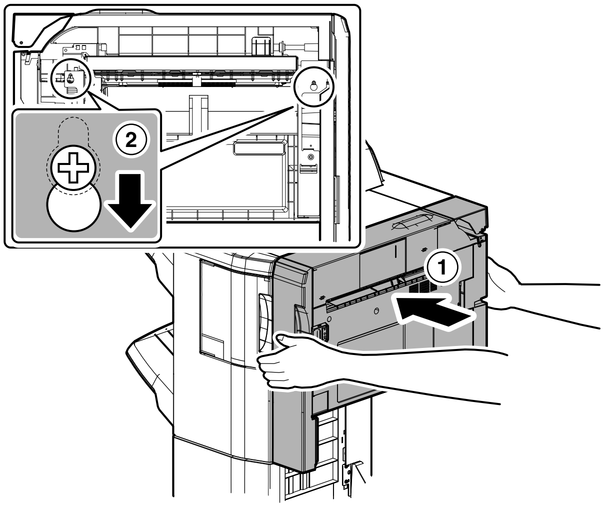
1) Attach the step screw A (Package part No. 2) to the finisher.



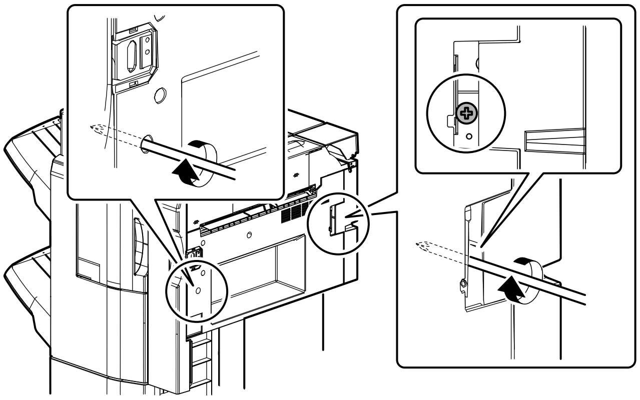
2) Remove the fixing screw, and remove the connector cover on rear side of the finisher.



3) Hang the punch unit on the step screws installed to the finisher.

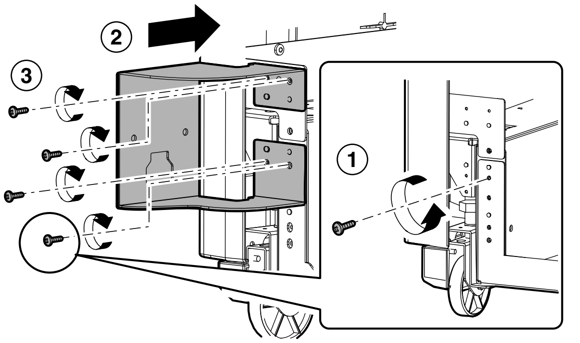


4) Tighten the step screws bundled to the punch unit, fix the punch unit.

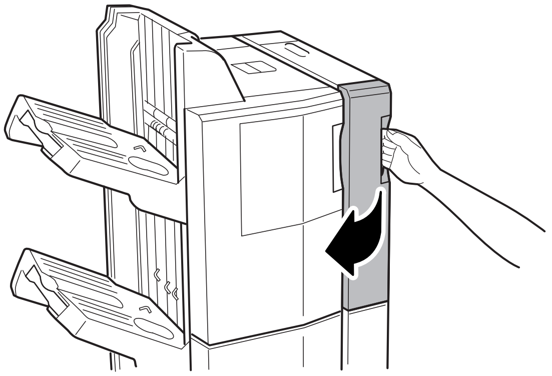


5) Attach the front cover mounting fixture (Package part No. 6) with the fixing screws (Package part No. 3).

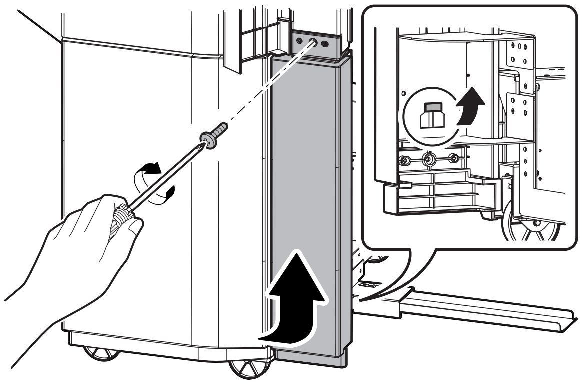
Remove the screw of the finisher, and reuse it. Install it using the reuse screw, and three fixing screws (Package part No. 3) bundled to punch unit.



6) Open the front door of punch unit.

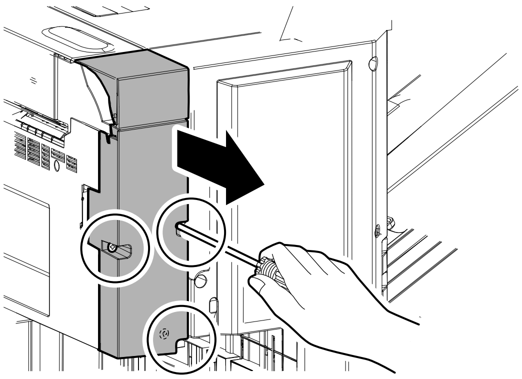


7) Engage the pawls of the rear side of front cover (Package part No. 5), attach the front cover with the fixing screw (Package part No. 1).

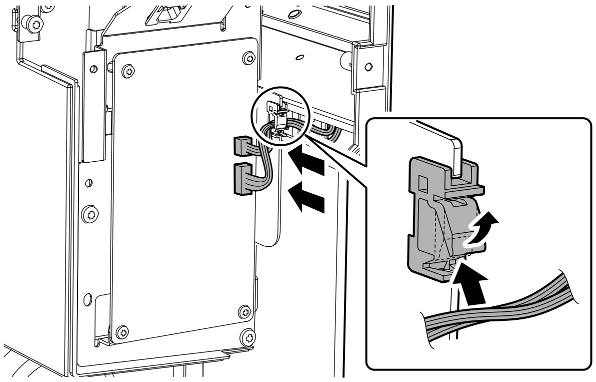


B. Connection of connector of the finisher and punch unit

1) Remove the fixing screws, and remove the rear cover.

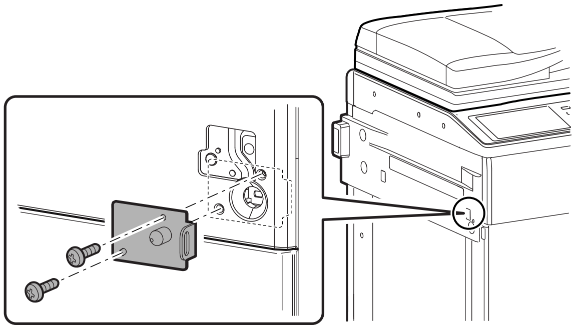


2) Connect two connectors of the finisher to the PWB of punch unit, and fix the harness to the clamp.

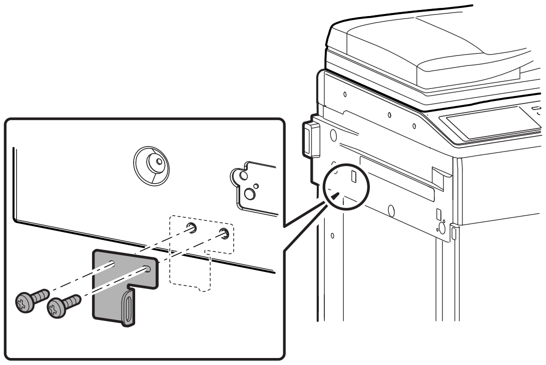


C. Install of the Connection fixture F/R

1) Install the Connection fixture F (Package part No. 7) to the main unit with the fixing screws (Package part No. 4).



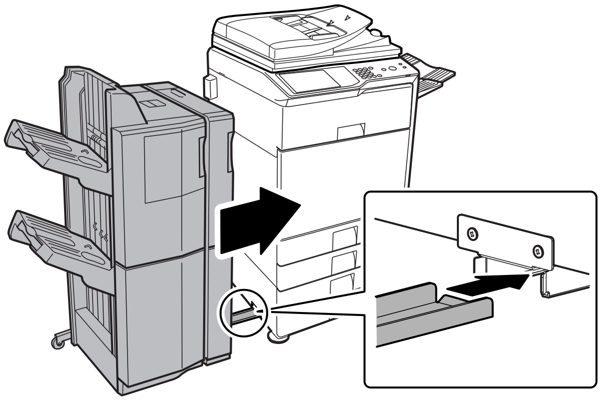
2) Install the Connection fixture R (Package part No. 8) to the main unit with the fixing screws (Package part No. 4).



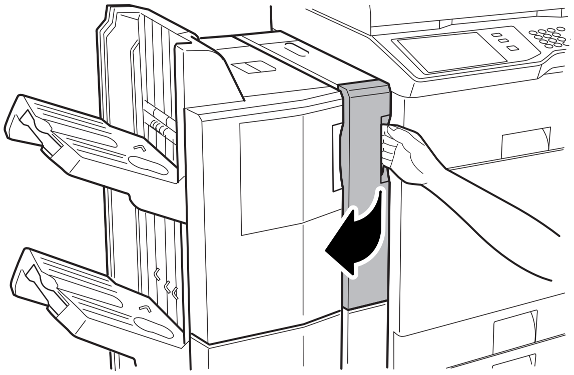
D. Check of the connected position of main unit and finisher

1) Engage the finisher that has installed punch unit to the main unit, and temporarily fix.

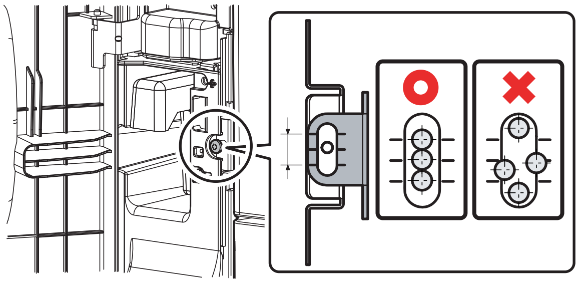
   * Insert the rail of the finisher unit into the rail reception fixture of main unit, fix temporarily.



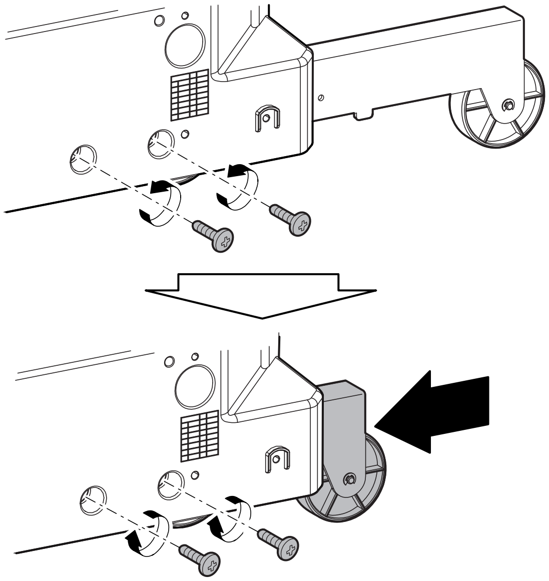
2) Open the front door of punch unit.



3) Check that the center of the screw hole of the punch unit is in the range of specification of an oval hole of the mounting fixture in front side of main unit.



* When not the range of specification, progress to the procedure of "E. Adjustment".
If the adjustment is not required, remove the screw from the screw hole directly and push the caster into it until the installation fixing.

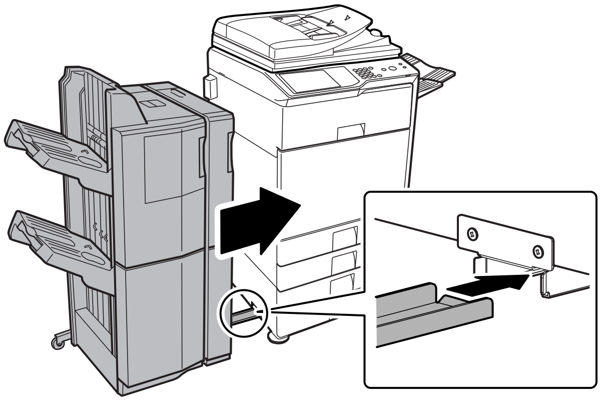


E. Adjustment

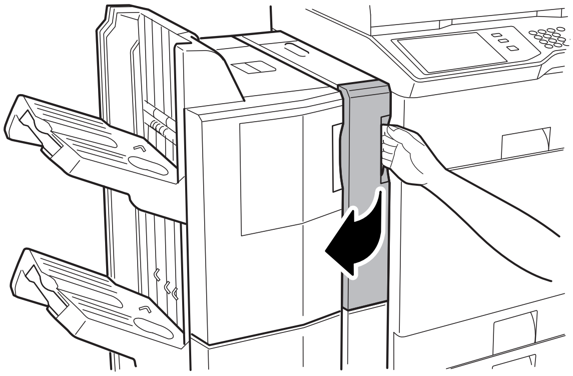
* Refer to the adjustment procedures in the MX-FN11 Service Manual.

F. Install to main unit

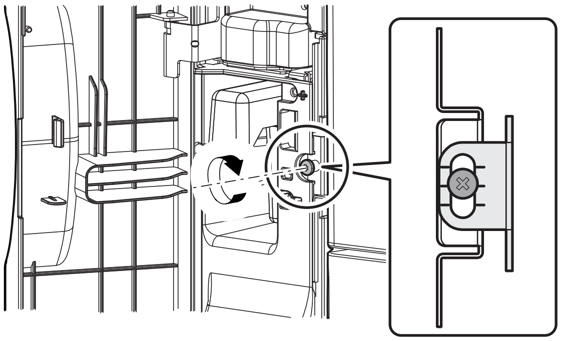
1) Engage the finisher that has installed punch unit to the main unit.



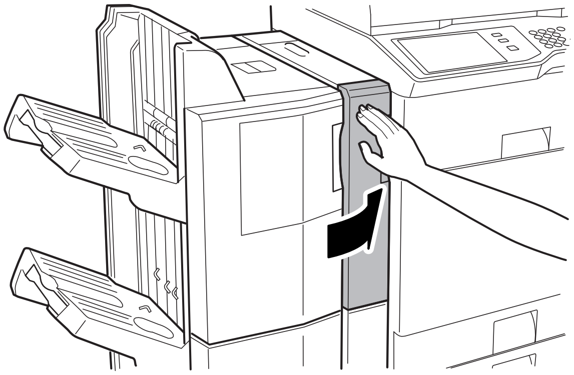
2) Open the front door of punch unit.



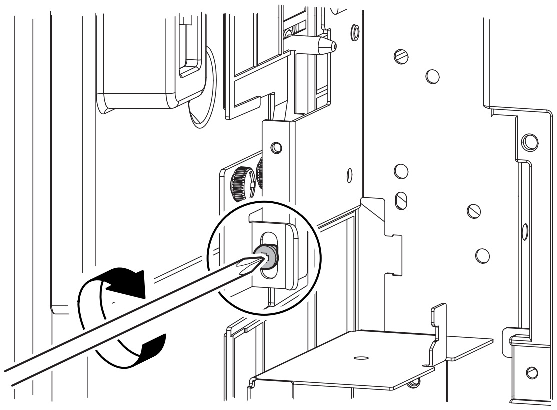
3) Secure the main unit and the punch unit with the fixing screw (Package part No. 4 of the MX-FN11).



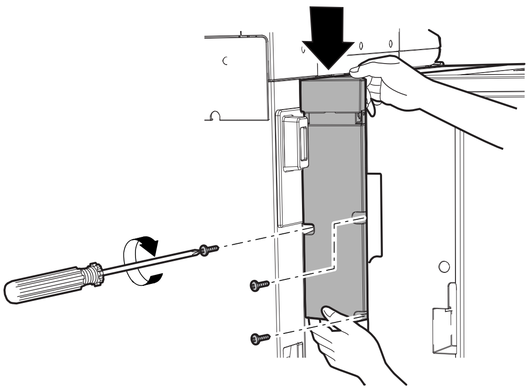
4) Close the front door of punch unit.



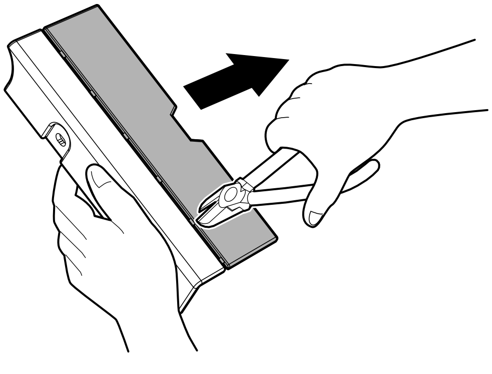
5) Install the fixing screw (Package part No. 4 of MX-FN11) on rear side.



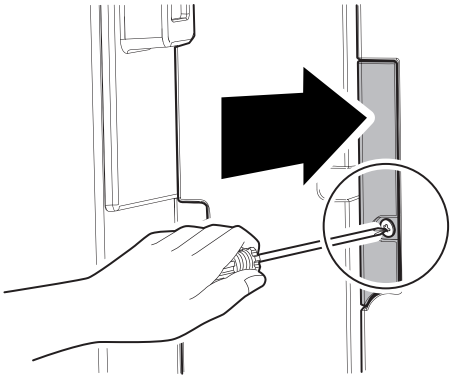
6) Install the rear cover of punch unit with the fixing screws.



7) By using nippers, split the removed connector cover of the finisher along the perforated line.

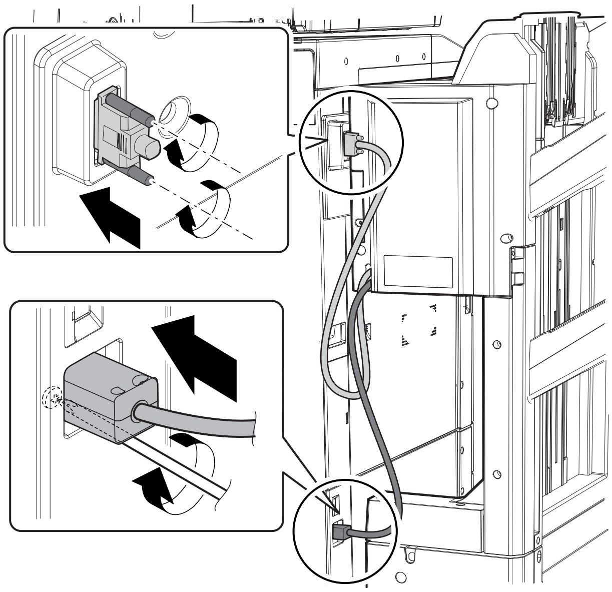


8) Install the connector cover of the finisher and fix it with the fixing screw.



G. Connection of connector to the main unit

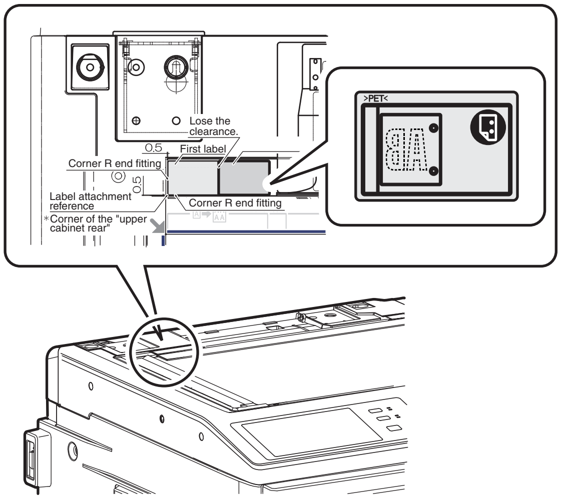
1) Connect two connectors of the finisher to the main unit, and tighten the screws.



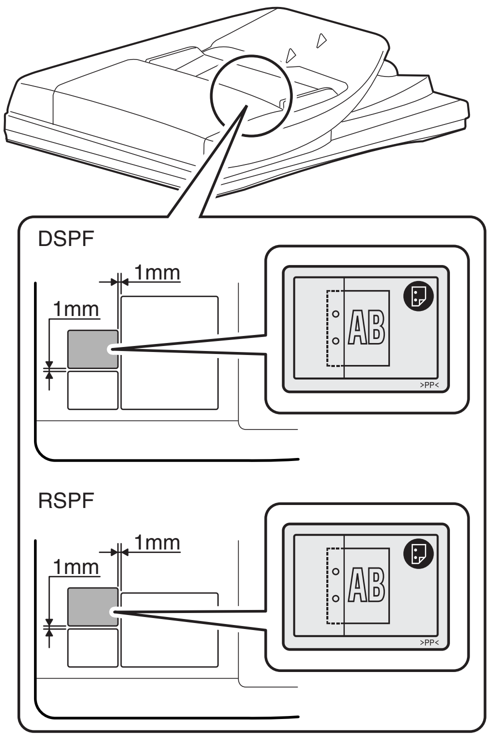
H. Punch position label attachment

1) Attach the punch position label to the position indicated in the figure.

[For scanner] (Package part No. 11 of the MX-FN11)

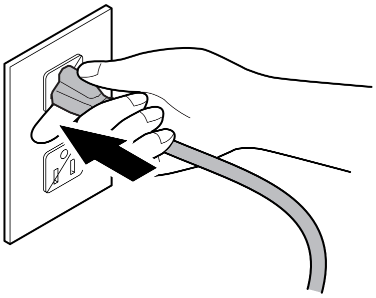

Lose the clearance.
0.5
First label
Corner R end fitting
0.5
Label attachment reference
Corner R end fitting
*Corner of the "upper cabinet rear"
>PET<

[For DSPF/RSPF] (Package part No. 12 of the MX-FN11)

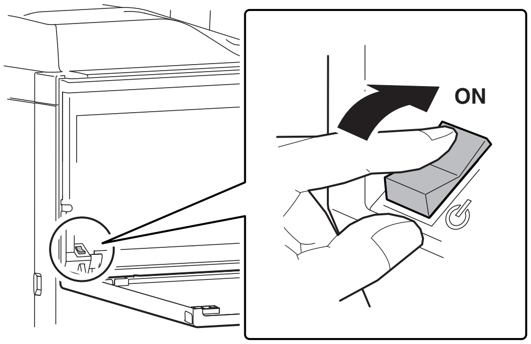

DSPF
1mm
1mm
AB
>PP<
RSPF
1mm
1mm
AB
>PP<

I. Turn ON the main power switch of the main unit

1) Connect the power plug of the main unit into the power outlet.



2) Open the front cabinet of the main unit. Turn ON the power switch in the front cabinet.

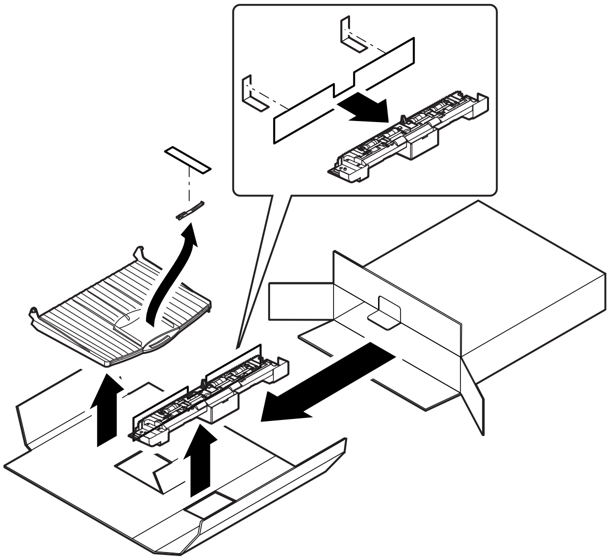


3) Turn ON the power switch on the operation panel.

[11] MX-TRX2

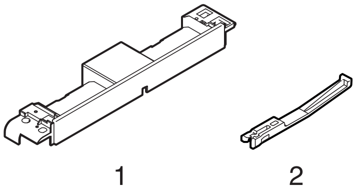
1. Unpacking

A. Removal of the exit tray unit



B. Check the packed items

1) Check that all the items are included in the package.



No.	Packed part names	Quantity
1	Exit roller unit	1
2	Full detection actuator	1

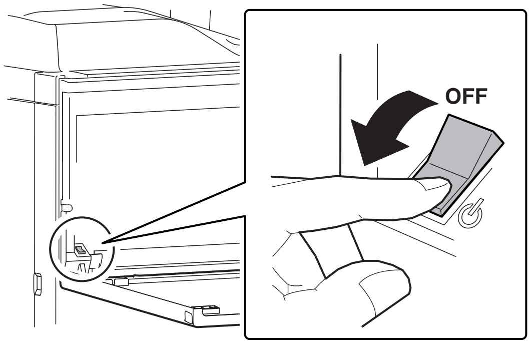
2. Installation

<Note before installation>

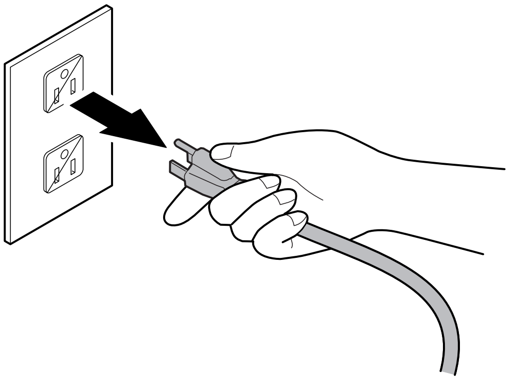
* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

A. Turn off the power of the main unit

1) Turn OFF the power switch on the operation panel.
2) Open the front cabinet.
   Turn OFF the power switch in the front cabinet of the main unit.

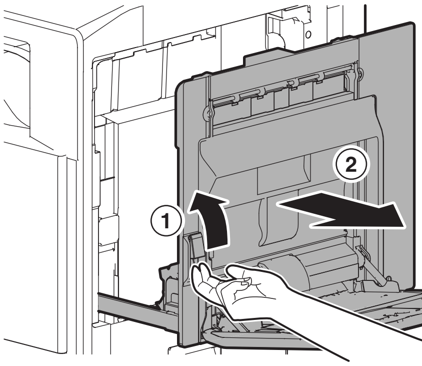


3) Remove the power plug of the main unit from the outlet.

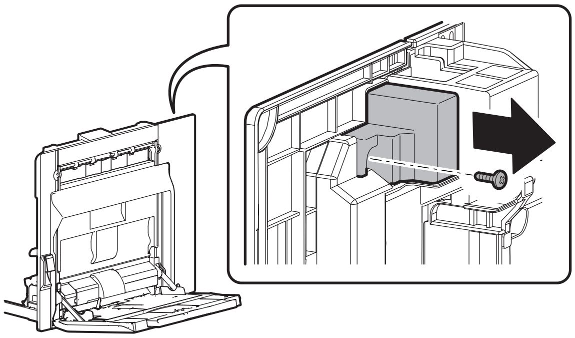


B. Installation of the exit roller unit

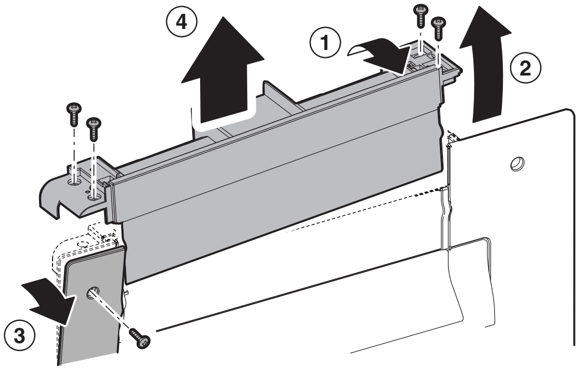
1) Open the right door.



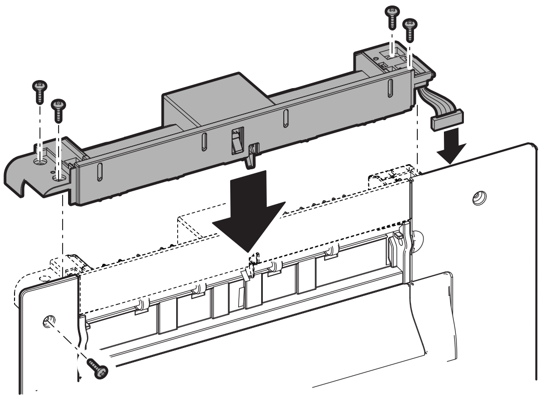
2) Remove the screw, and remove the connector cover.



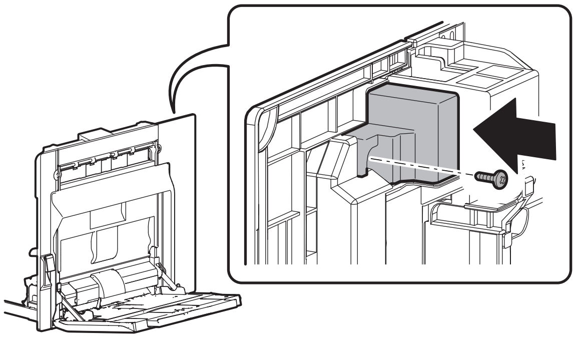
3) Remove the screw. Disengage the engagement in the front side then in the rear side, and remove the paper exit cover.



4) Connect the connector, and install the exit roller unit (package part No. 1). Use the screw which was removed in step 3) and fix the unit.

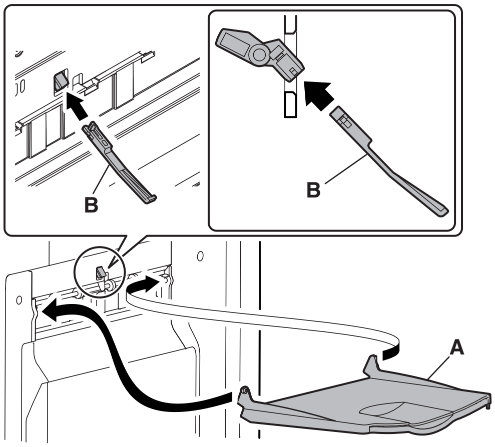


5) Install the connector cover, and fix it with the screw.



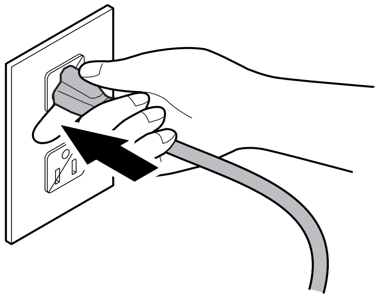
6) Install the exit tray unit (A) and the full detection actuator (B) (package part No. 2).

   * Be careful of the installing direction of the full detection actuator.



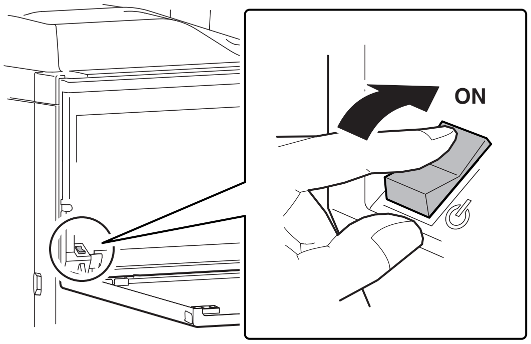
C. Turn on the power of the main unit.

1) Insert the power plug of the main unit into the power outlet.



2) Open the front cabinet.

   Turn ON the power switch in the front cabinet of the main unit.



3) Turn ON the power switch on the operation panel.

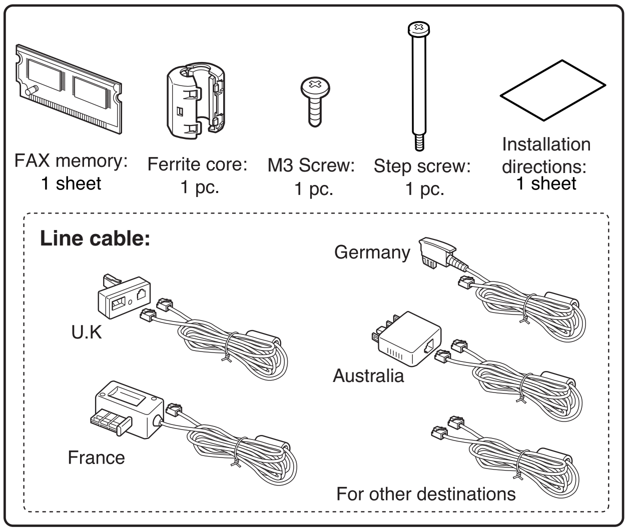
D. Tray setting

Use SIM26-1 to set the tray YES/NO.

[12] MX-FXX2

1. Unpacking

A. Parts included


FAX memory: 1 sheet
Ferrite core: 1 pc.
M3 Screw: 1 pc.
Step screw: 1 pc.
Installation directions: 1 sheet
Line cable:
Germany
U.K
Australia
France
For other destinations

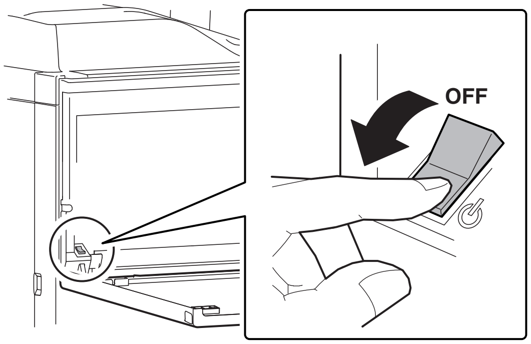
2. Installation

<Note before installation>

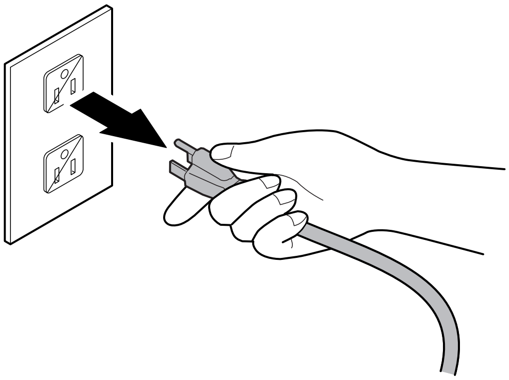
- Start installation after checking that the LINE indicator and the DATA indicator below it on the operation panel are neither lit nor blinking.

A. Turn off the power switches of the main unit.

1) Turn the power switch located on the operation panel to the "OFF" position.
2) After checking that the operation panel has gone out, open the front cabinet and turn the main power switch to the "OFF" opsition.

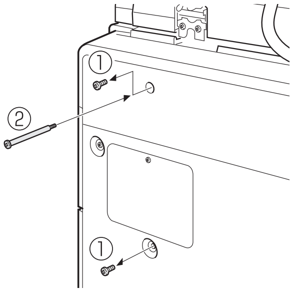


3) Remove the power plug of the main unit from the outlet.

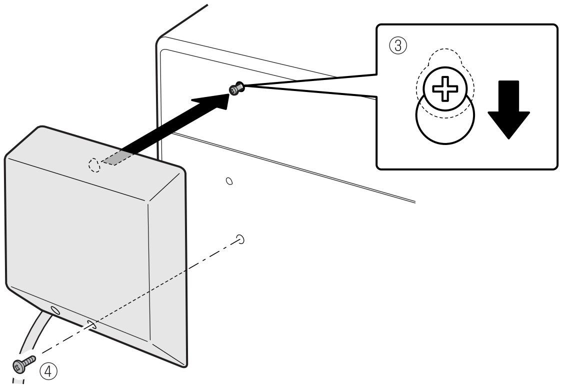


B. Attach the fax box unit to the rear part of the main unit.

1) Remove the two screws from the rear cabinet of the main unit.
2) Attach the supplied step screw to one of the two positions from which the screws are removed.

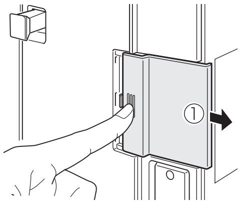


3) Insert the step screw into the mounting hole of the fax box unit.
4) Use a screw that has been removed in step 1) to secure the fax box unit.

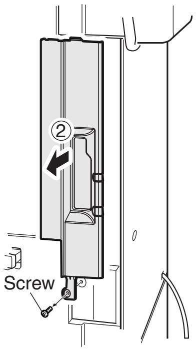


C. Pull out the control PWB.

1) Push the location indicated in the illustration to unlock, and remove the ozone filter cover from the right cabinet rear.

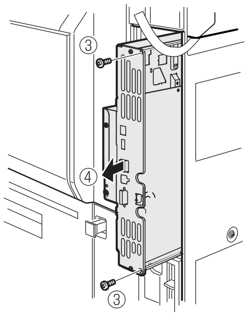


2) Remove the screw from the right cabinet rear and remove the right cabinet rear.

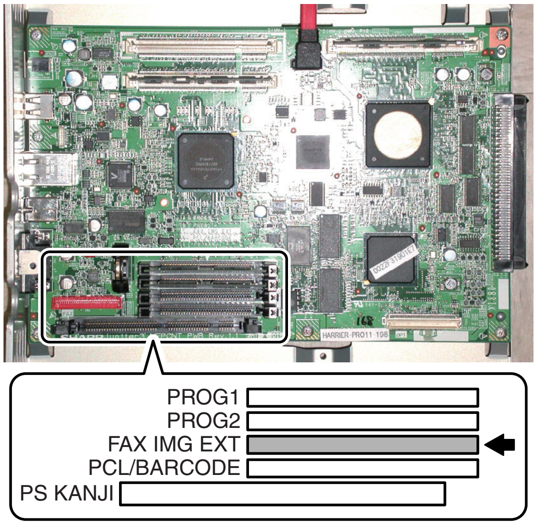


3) Remove the two screws from the control PWB unit.

4) Pull out the control PWB unit.



D. Attach the FAX memory.



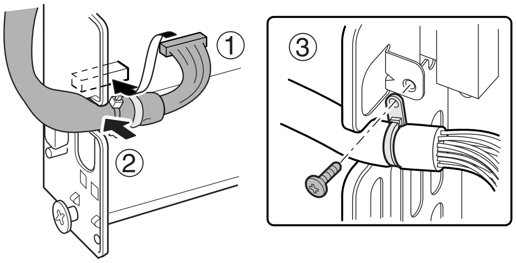
E. Attach the interface cable.

1) Connect the interface cable to the control PWB unit.

   [Note] Check that the connector is not obliquely inserted.

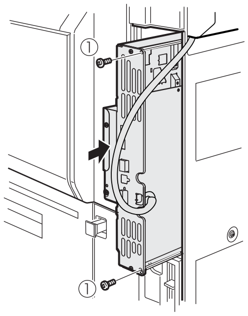
2) Push the interface cable into the recessed portion of the sheet metal on the control PWB unit.

3) Fix a snap band with the bundled M3 screw.

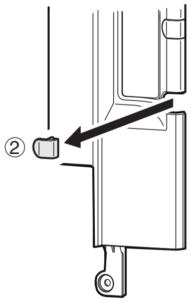


F. Attach the control PWB and the right cabinet rear.

1) Push the control PWB unit into the main unit and secure it with the two screws.



2) Cut out the cut-out portion of the right cabinet rear.

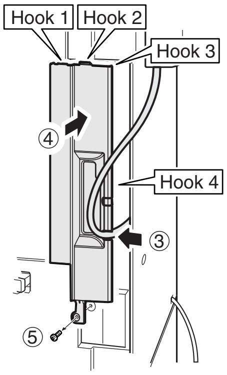


3) Fit the interface cable into the opening that has been cut.

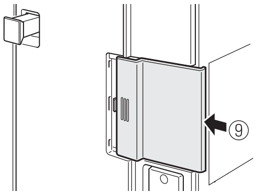
4) Attach the right cabinet rear cover to the main unit.

   At this time, check that the four hooks are properly fitted to the main unit.

5) Secure the right cabinet rear with the screw.

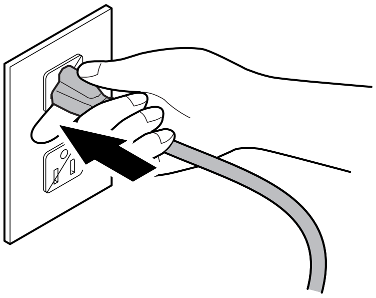


6) Attach the ozone filter cover to the main unit.

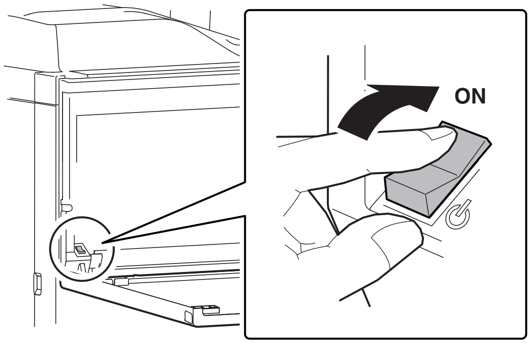


G. Turn on the main power switch of the main unit.

1) Insert the power plug of the main unit to the outlet.



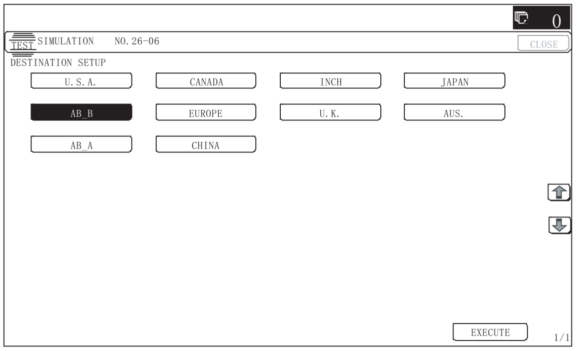
2) Turn on the main power switch.



3) Turn on the power switch located on the operation panel.

H. Set the destination and the logo type.

1) Enter the SIM 26-6 mode.



SIMULATION NO.26-06

DESTINATION SETUP

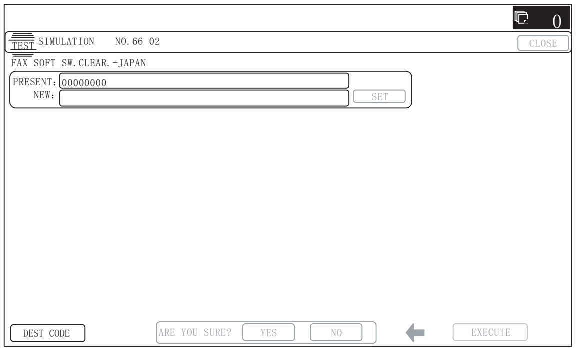
2) Press the key corresponding to the destination.

U.S.A.	United States of America
CANADA	Canada
INCH	Inch series, other destinations
JAPAN	Japan
AB_B	AB series (B5 detection), other destinations
EUROPE	Europe
U.K.	United Kingdom
AUS.	Australia
AB_A	AB series (A5 detection), other destinations
CHINA	China

3) Press [EXECUTE] key.

I. Clear the FAX related software switches.

1) Enter the SIM 66-2 mode.



SIMULATION NO.66-02

FAX SOFT SW.CLEAR.-JAPAN

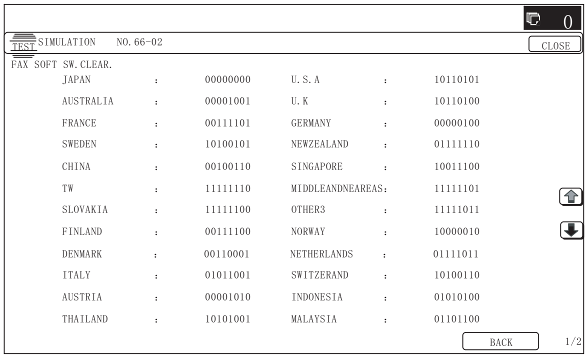
PRESENT: 00000000

NEW:

2) Enter the country code (8 digits) with the 10-key.

3) Press [SET], [EXECUTE], and [YES] keys.

NOTE: When [DEST CODE] key is pressed, the country code list is displayed.



SIMULATION NO.66-02

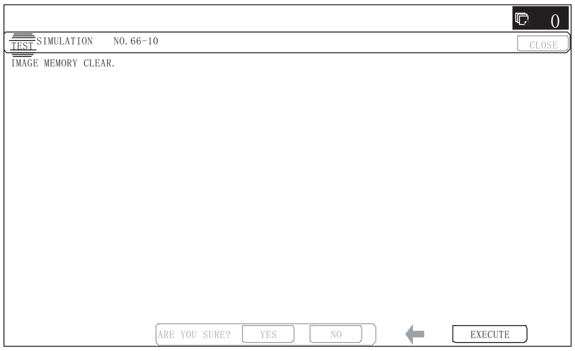
FAX SOFT SW.CLEAR.

JAPAN	:	00000000	U.S.A	:	10110101
AUSTRALIA	:	00001001	U.K	:	10110100
FRANCE	:	00111101	GERMANY	:	00000100
SWEDEN	:	10100101	NEWZEALAND	:	01111110
CHINA	:	00100110	SINGAPORE	:	10011100
TW	:	11111110	MIDDLEANDNEAREAS	:	11111101
SLOVAKIA	:	11111100	OTHER3	:	11111011
FINLAND	:	00111100	NORWAY	:	10000010
DENMARK	:	00110001	NETHERLANDS	:	01111011
ITALY	:	01011001	SWITZERAND	:	10100110
AUSTRIA	:	00001010	INDONESIA	:	01010100
THAILAND	:	10101001	MALAYSIA	:	01101100

Country code list			
JAPAN	: 00000000	SWITZERLAND	: 10100110
U.S.A.	: 10110101	AUSTRIA	: 00001010
AUSTRALIA	: 00001001	INDONESIA	: 01010100
U.K.	: 10110100	THAILAND	: 10101001
FRANCE	: 00111101	MALAYSIA	: 01101100
GERMANY	: 00000100	INDIA	: 01010011
SWEDEN	: 10100101	PHILIPPINES	: 10001001
NEWZEALAND	: 01111110	HONGKONG	: 01010000
CHINA	: 00100110	RUSSIA	: 10111000
SINGAPORE	: 10011100	SOUTHAFRICA	: 10011111
TW	: 11111110	SPAIN	: 10100000
MIDDLEANDNE AREAST	: 11111101	PORTUGUESE	: 10001011
SLOVAKIA	: 11111100	LUXEMBURG	: 01101001
OTHER3	: 11111011	BELGIUM	: 00001111
FINLAND	: 00111100	CZECH	: 00101110
NORWAY	: 10000010	HUNGARY	: 01010001
DENMARK	: 00110001	GREECE	: 01000110
NETHERLANDS	: 01111011	POLAND	: 10001010
ITALY	: 01011001	BRAZIL	: 00010110

J. Clear the image memory.

1) Enter the SIM 66-10 mode.



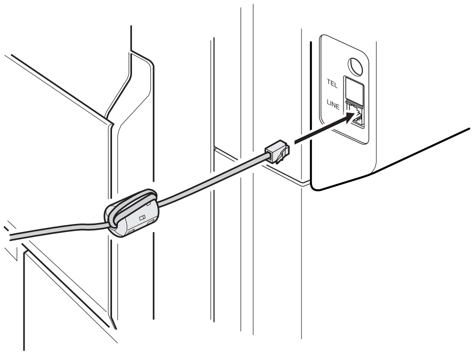
```
SIMULATION    NO.66-10
IMAGE MEMORY CLEAR.
```

2) Press [EXECUTE] key and then [YES] key. (The FAX image memory is cleared.)
3) After several minutes, memory clear operation is completed and the [YES] button goes out. Press the [CA] key to exit from the simulation mode.

   Then the main unit is automatically rebooted.

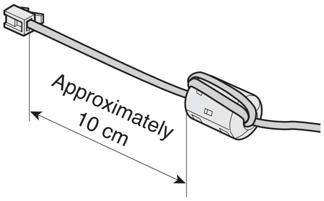
K. Connect the line cable to the fax box unit.

1) Connect the line cable of the line side to the modular jack indicated with "LINE."



- **For using an external telephone:**

  For using an external telephone, wind the line cable around the supplied ferrite core by two turns and connect the cable to the modular jack indicated with "TEL."

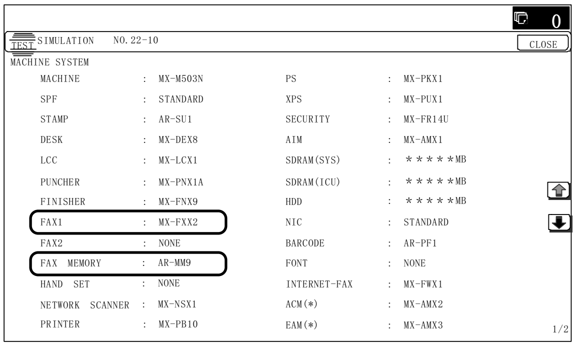


L. Installation completion check

1) Execute SIM 22-10 to check to confirm that the FAX box and the FAX memory are properly installed.

   When the FAX1 is properly connected, "MX-FXX2" is displayed.

   When the FAX memory is properly connected, "AR-MM9" is displayed.

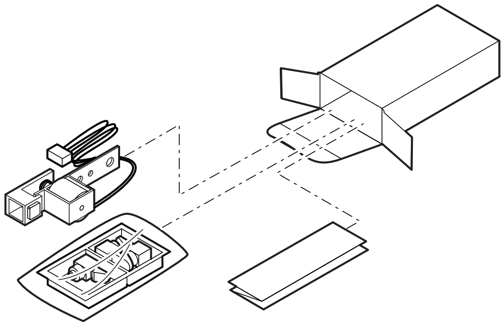


```
SIMULATION    NO.22-10
MACHINE SYSTEM
    MACHINE          :  MX-M503N       PS            :  MX-PKX1
    SPF              :  STANDARD       XPS           :  MX-PUX1
    STAMP            :  AR-SU1         SECURITY      :  MX-FR14U
    DESK             :  MX-DEX8        AIM           :  MX-AMX1
    LCC              :  MX-LCX1        SDRAM(SYS)    :  *****MB
    PUNCHER          :  MX-PNX1A       SDRAM(ICU)    :  *****MB
    FINISHER         :  MX-FNX9        HDD           :  *****MB
    FAX1             :  MX-FXX2        NIC           :  STANDARD
    FAX2             :  NONE           BARCODE       :  AR-PF1
    FAX  MEMORY      :  AR-MM9         FONT          :  NONE
    HAND  SET        :  NONE           INTERNET-FAX  :  MX-FWX1
    NETWORK  SCANNER :  MX-NSX1        ACM(*)        :  MX-AMX2
    PRINTER          :  MX-PB10        EAM(*)        :  MX-AMX3
                                                                  1/2
```

[13] AR-SU1

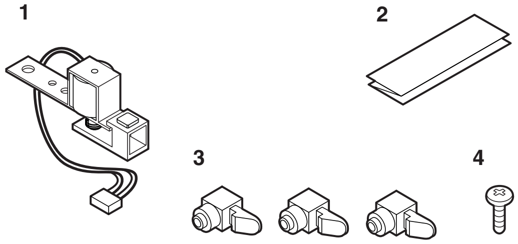
1. Unpacking

A. Remove the stamp unit



B. Check the parts in the package

1) Check to confirm that all the parts are included in the package.



No.	Part name	Quantity
1	Stamp unit	1
2	Stamp cartridge replacement procedure*	1
3	Stamp cartridge	3
4	Installing screw	1

* When replacing the stamp cartridge, Refer to “Stamp cartridge replacement” in the “User’s Guide” (PDF document). The user must be notified of that. (Do not refer to “Stamp cartridge replacement procedure” (package part No. 2).)

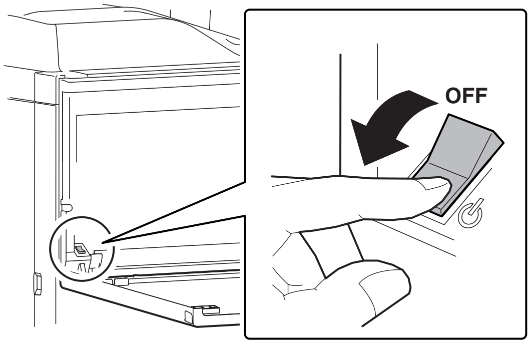
2. Installation

<Note before installation>

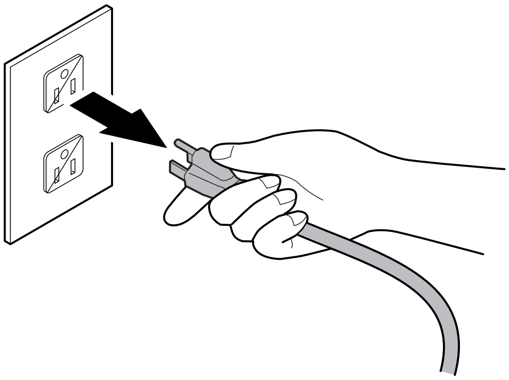
* Before execution of installation, check to confirm that the data lamp on the installation panel does not light or flash.

A. Turn off the power of the main unit

1) Turn OFF the power switch on the operation panel.
2) Open the front cabinet, and turn OFF the power switch.

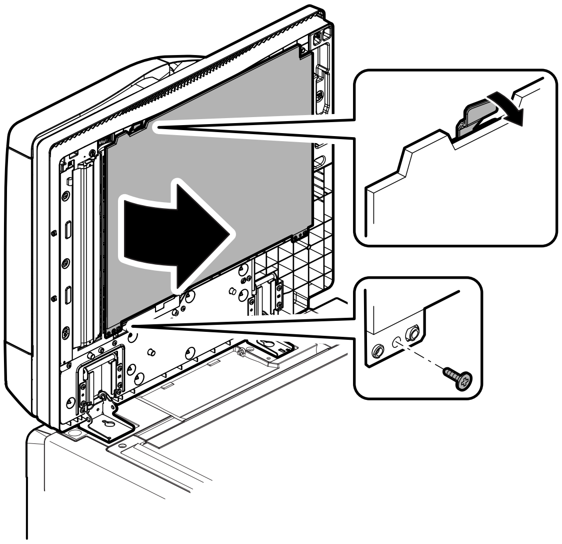


3) Disconnect the power plug from the power outlet.

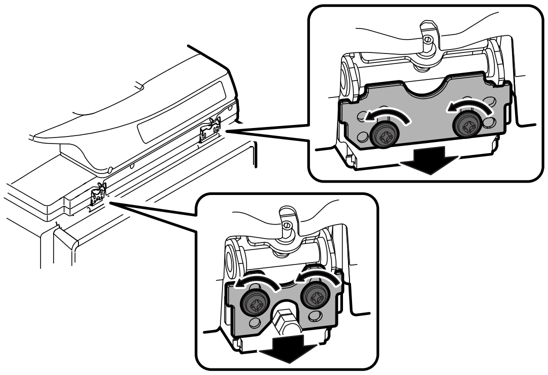


B. Install the stamp unit

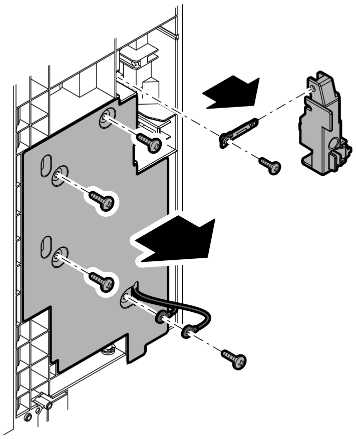
1) Open the DSPF/RSPF unit, and remove the OC mat.
For removing and fixing screws, use a stubby screwdriver.



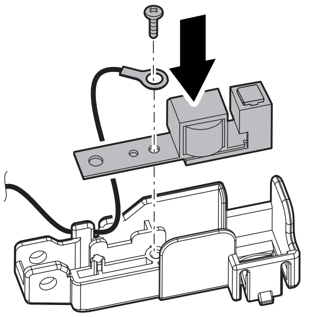
* If stubby screwdriver is not available, loosen the screw of the angle adjustment plate on the rear side of the machine, and lower the angle adjustment plate and put the DSPF/RSPF unit straight.



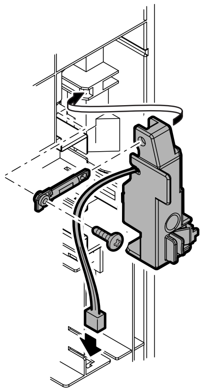
2) Remove the sensor cover. Remove the stamp case, and remove the earth cord.



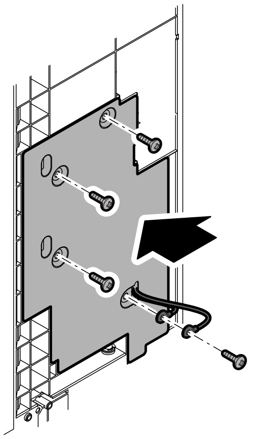
3) Attach the stamp unit (package part No. 1) to the stamp case which was removed from the DSPF/RSPF unit with the installing screw (package part No. 4). (Fix it together with the earth wire.)



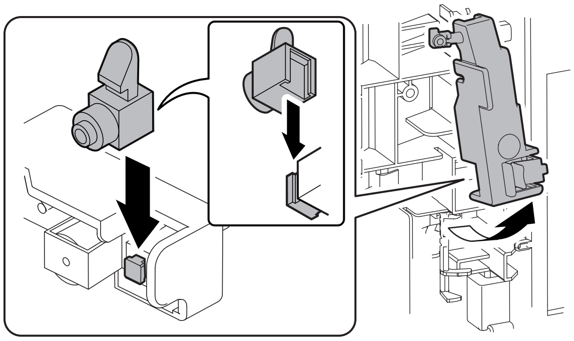
4) Install the stamp case unit, and connect the connector.



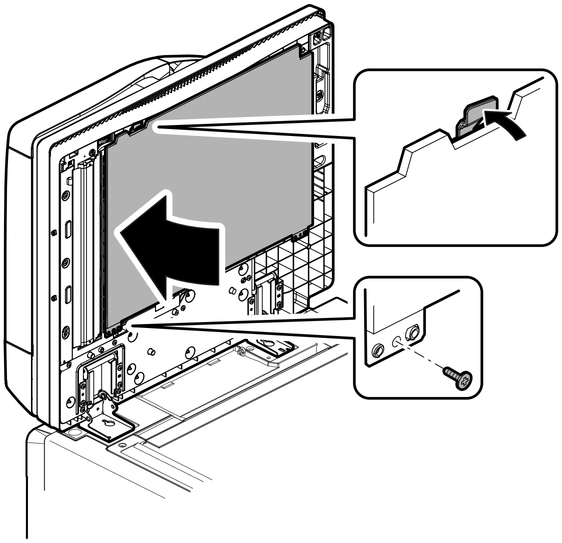
5) Install the sensor cover.



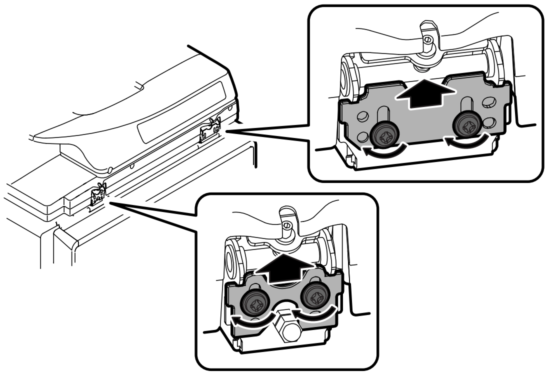
6) Install the stamp cartridge (package part No. 3).



7) Install the OC mat, and close the DSPF/RSPF unit.

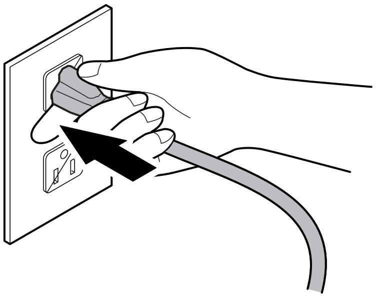


* If the angle adjustment plate was lowered for installation, lift the angle adjustment plate, and fix it with the screw, and close the DSPF/RSPF unit.

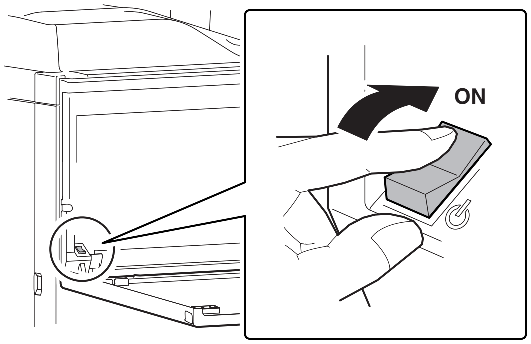


C. Turn on the power of the main unit

1) Insert the power plug into the power outlet.



2) Open the front cabinet of the machine, and turn ON the power switch.

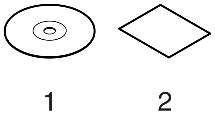


3) Turn ON the power switch on the operation panel.
4) Use SIM22-10 to check to confirm that the finish stamp (AR-SU1) is recognized.

[14] MX-PB10

1. Unpacking

A. Parts included



No.	Packed part names	Quantity
1	CD-ROM (Driver)	1
2	Product key sheet (With Application Number)	1

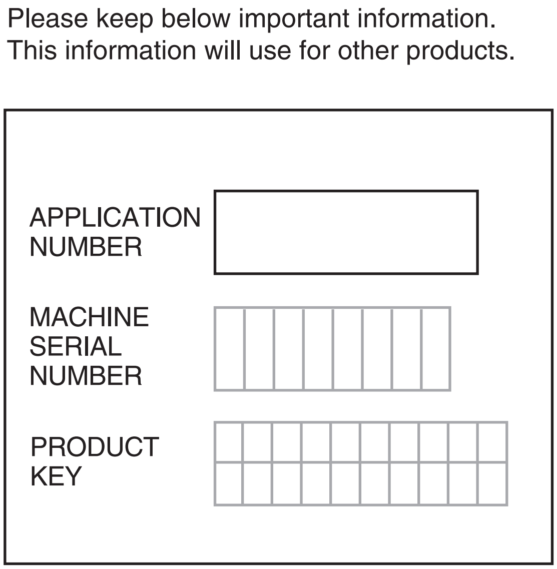
2. Installation

A. Preparation for enabling the MX-PB10

1) To enable the MX-PB10, enter the product key by the key operation of the copier machine.
    a) Press the system setting key on the operation panel.
    b) Select [Product key input] key display page, and touch the key.
    c) Touch the input column.
    d) Enter the product key with numeric key (10-key), and touch [Registration] key.
2) After completion of entry of the product key, turn OFF the power switch on the operation panel. Turn OFF the main power switch, then turn ON the power switch and the main power switch again.
3) Use the attached CD-ROM to install the driver.

    For installing procedures, refer to the software setup guide.

    Installation of the driver must be performed by the user or the serviceman with assistance or the user.



Please keep below important information.
This information will use for other products.

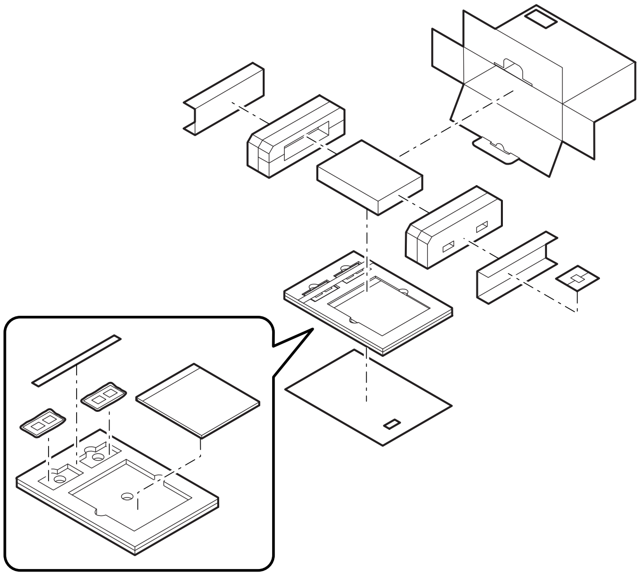
APPLICATION NUMBER

MACHINE SERIAL NUMBER

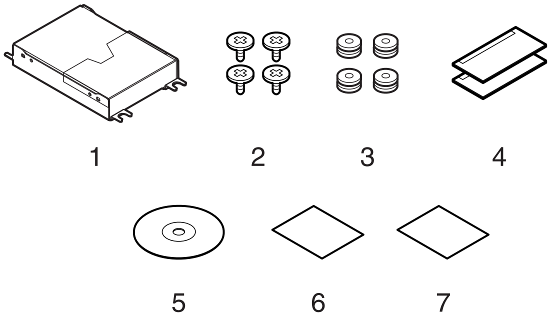
PRODUCT KEY

[15] MX-PB11

1. Unpacking



A. Parts included



No.	Packed part names	Quantity
1	HDD with frame (Included Water mark data)	1
2	HDD fixing screw	4
3	HDD rubber isolator	4
4	Flash ROM (Program 1/Program 2)	2
5	CD-ROM (Driver)	1
6	Product key sheet with Application number	1

2. Installation

A. Preliminary arrangements

NOTE: When this option is installed to a machine which has been used by a user, be sure to backup the user data as shown below.

When the MX-PB11 is installed, the user settings and the registered data are initialized. (The simulation settings and the adjustment data are not initialized.)

Before installing the MX-PB11, save the user data. After completion of installation, the saved data. Must be restored.

When this option is installed to a new machine, the procedure below is not required.

Once the product key is inputted after installation of the MX-PB11, the model cannot be changed back to the U model without HDD. Before entering the product key, however, the model can be changed back to the U model without HDD. In that case, however, the user settings and the registered data are initialized.

1) Use the device cloning function to backup the user setting data stored in the SRAM and the EEPROM to a PC or USB memory.

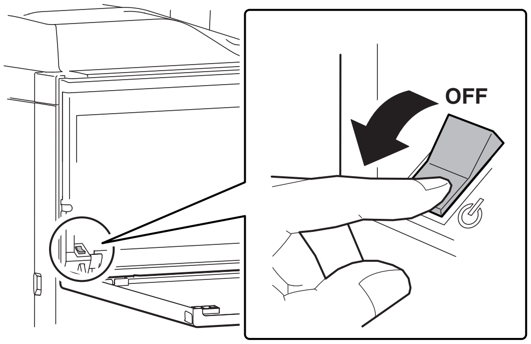
   Use the device cloning function on either the system setting or the Web Page menu to backup the data.

2) Use the storage backup function to backup the user data stored in the HDD to a PC or USB memory.

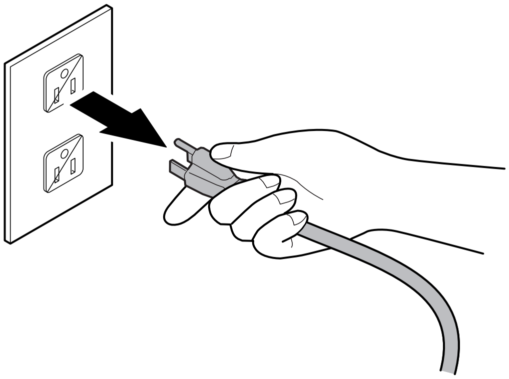
   Use the storage backup function on either the system setting or the Web Page menu to backup the data.

B. Turn off the power of the main unit

1) Turn the power switch located on the operation panel to the "OFF" position.
2) Open the front cabinet. Turn OFF the power switch in the front cabinet of the main unit.



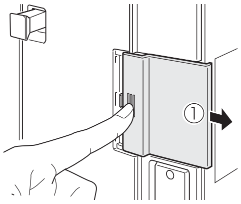
3) Disconnect the power plug of the main unit from the power outlet.



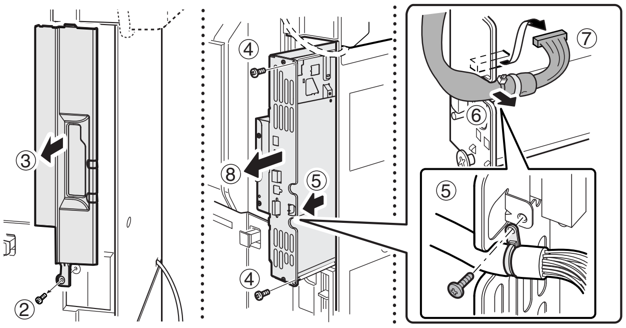
C. Pull out the control PWB

- If cables are connected to the control PWB unit, remove all cables.

1) Push the location indicated in the illustration to unlock, and remove the cover from the right cabinet rear.



2) Remove the screw from the right cabinet rear.
3) Remove the right cabinet rear.
4) Remove the two screws from the control PWB unit.
    - If the fax box unit is installed, carry out steps 5), 6), and 7) additionally.
5) Pull out the control PWB unit and remove the snap band.
6) Remove the interface cable from the frame.
7) Remove the connector.
8) Pull out and remove the control PWB unit.

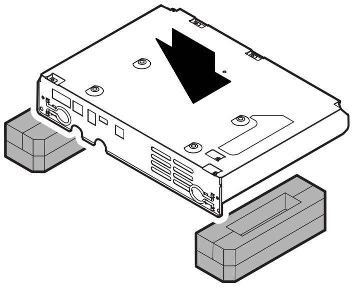


D. HDD installation

1) Put the cushion material used for packing the MX-PB11 beneath the MFP PWB frame.

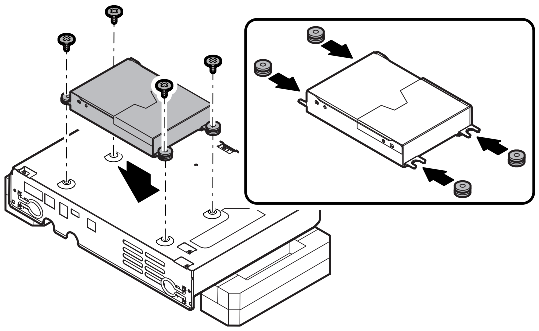
NOTE: Be sure to perform this procedure in order to protect the memory and the Flash ROM on the MFP PWB.

If this procedure is neglected, a stress may be applied to the memory and the Flash ROM on the MFP PWB, causing a trouble.

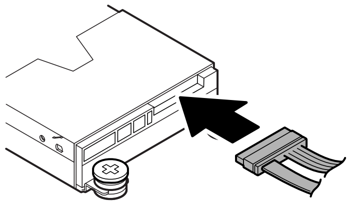


2) Install the HDD to the MFP PWB frame.

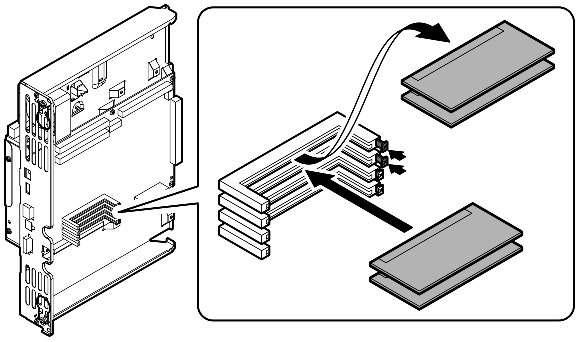
When installing the HDD to the MFP PWB frame, attach the anti-vibration rubber to the HDD frame side and fix it with a screw.



3) Connect the HDD cable to the HDD.



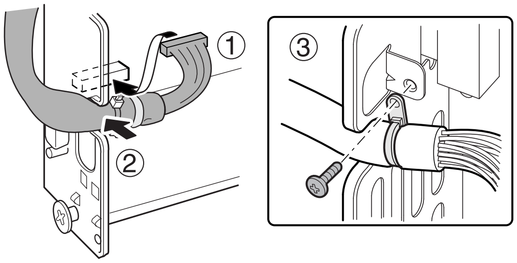
4) Replace the Flash ROM (Program 1/Program 2) installed to the MFP PWB with the Flash ROM attached to the MX-PB11.



E. Reattach the control PWB and the right cabinet rear

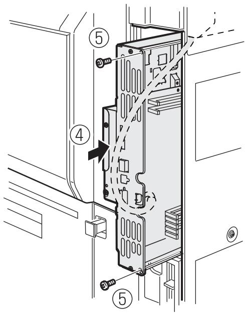
- If the fax box unit is installed, carry out steps 1), 2), and 3) additionally.

1) Connect the interface cable to the control PWB unit.
2) Push the interface cable into the recessed portion of the sheet metal on the control PWB unit.
3) Attach the snap band to the sheet metal of the control PWB unit.



4) Push the control PWB unit into the main unit.

5) Secure the unit with the two screws.

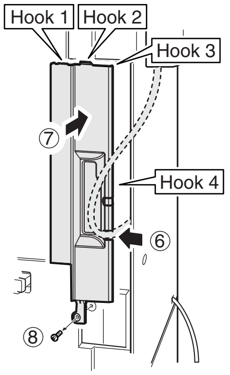


6) Fit the interface cable into the right cabinet rear cover.

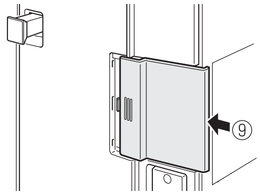
7) Attach the right cabinet rear cover to the main unit.

At this time, check that the four hooks are properly fitted to the main unit.

8) Secure the right cabinet rear with the screw.



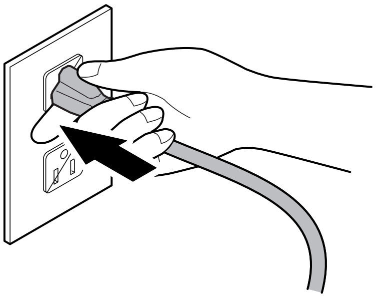
9) Attach the cover to the main unit.



- Reconnect the cables that have been removed in step B to the original positions of the control PWB unit.

F. Turn ON the power of the main unit

1) Insert the power plug of the main unit into the power outlet.



G. Preparation for enabling the MX-PB11

1) To enable the MX-PB11, enter the product key by the key operation of the copier machine.
    a) Turn on the power. (The product key input menu is displayed.)
    b) Enter the product key with numeric key (10-key), and touch [Registration] key.

2) After completion of entry of the product key, turn OFF the power switch on the operation panel. Turn OFF the main power switch, then turn ON the power switch and the main power switch again.

3) Use the attached CD-ROM to install the driver.

For installing procedures, refer to the software setup guide.

Installation of the driver must be performed by the user or the serviceman with assistance or the user.

NOTE: If any trouble occurs during installing procedures, cancel the trouble.

Please keep below important information.
This information will use for other products.

APPLICATION NUMBER

MACHINE SERIAL NUMBER

PRODUCT KEY

H. User data restoring procedures

The data saved in the PC in the preliminary arrangement are restored to the SRAM, the EEPROM, and the HDD.

When this option is installed to a machine which has been used by a user, be sure to backup the user data as shown below.

When this option is installed to a new machine, the procedure below is not required.

1) Use the device cloning function to restore the user setting data which were backed up to the PC or USB memory to the SRAM and the EEPROM.

Use the device cloning function on either the system setting or the Web Page menu to restore the data.

2) Use the storage backup function to restore the user setting data which were backed up to the PC or USB memory to the HDD.

Use the device cloning function on either the system setting or the Web Page menu to restore the data.

I. Deletion of backup data

Delete the user data backed up to the PC or the USB memory.

When a PC or USB memory which belongs to the serviceman is used for user data backup, be sure to delete the data after completion of work.

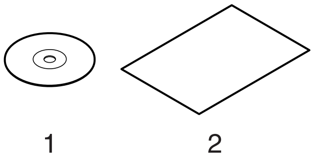
[16] MX-FWX1

- **This option requires installation of a HDD, and cannot be used with the models having no HDD.**

  When this option is used with the U model, the MX-PB11 option must be installed.

1. Unpacking

A. Check the packed items



No.	Packed part names	Quantity
1	CD-ROM	1
2	Product key sheet	1

2. Installation

<Note before installation>

- In order to enable the Internet Fax send function, the product key must be acquired.
- In order to specify the address of the Internet Fax with the PC-FAX driver, the PC-FAX driver must be updated by the Internet Fax expansion kit.

A. Preparation for enabling the Internet Fax send function

1) In order to enable the Internet Fax send function, enter the product key by the key operation on the operation panel.
   a) Press the system setting key on the operation panel.
   b) Select page 2/2 of the system setting, and touch [Product key input] key.
   c) Touch the input column.
   d) Enter the product key with numeric key (10-key), and touch [Registration] key.
2) After completion of entry of the product key, turn OFF the power switch on the operation panel. Turn OFF the main power switch, then turn ON the power switch and the main power switch again.

   * After completion of 1) and 2), the Internet Fax send function from the main unit becomes enable. To enable the Internet Fax send with the PC-FAX driver, the following steps 3) and 4) are required.
3) Use the CD-ROM packed together with the machine to install the PC-FAX driver.

   For installing procedures, refer to the software setup guide.
4) Update the PC-FAX driver with the CD-ROM packed together with the machine.

   * Install and setting of the driver to the PC server must be performed by the user or by the request from the user.

B. Operation check of the Internet Fax send function

1) After completion of entry of the product key, check to confirm that the Internet Fax send is performed normally from the machine.
2) After completion of update of the PC-FAX driver, press the print button on the test page of the PC-FAX driver to check to confirm that the Internet Fax send is performed normally.

[17] MX-EBX3

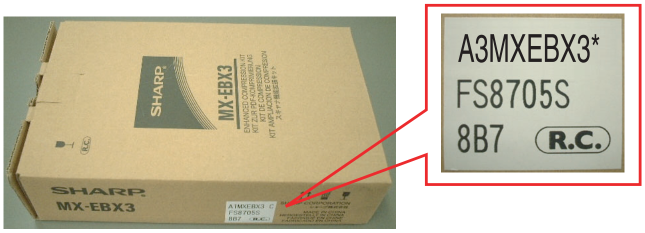
*** This option cannot be installed to the U model.**

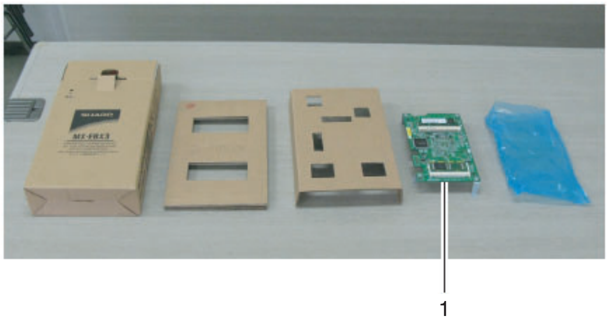
1. Unpacking

The MX-EBX3 is available in the following three types. Instillation must be performed according to the type.

A. Old type

(1) Parts included





No.	Packed part names	Quantity
1	Scanner function expansion PWB (ACRE PWB)	1

- The old-type MX-EBX3 is not provided with the mounting plate and the screws (M3 x 6S tight) which are required for installation.

  To use the old-type machine, these necessary parts must be obtained separately as service parts.

  Mounting plate: LPLTM7873FCZZ x 1

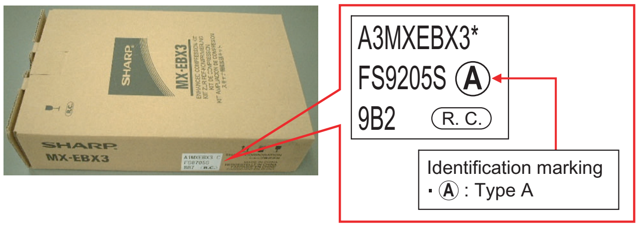
  Screw: XHBS730P06000 x 2
- Firmware

  The firmware must be revised to the latest version.

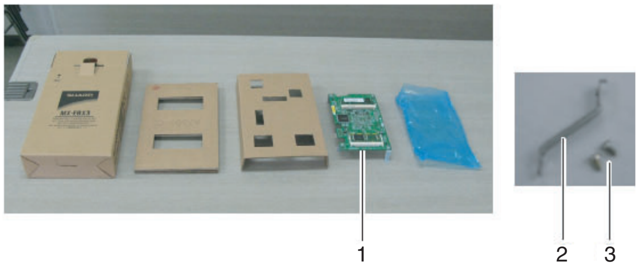
  The ACRE firmware version must be 02.00.J2 or later.

B. Type A

(1) Parts included



The identification mark "Ⓐ" is indicated on the side of the package of type A.



No.	Packed part names	Quantity
1	Scanner function expansion PWB	1
2	Mounting plate	1
3	Screw (M3 x 6 S tight)	2

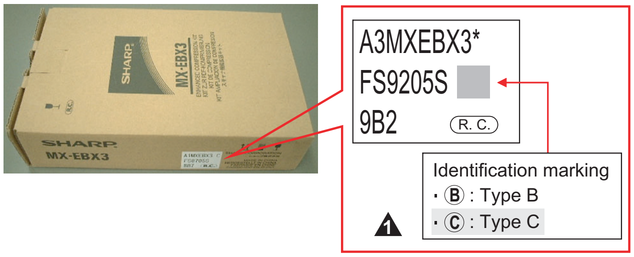
- The MX-EBX3 of type A is provided with all the parts necessary for installation.
- Firmware

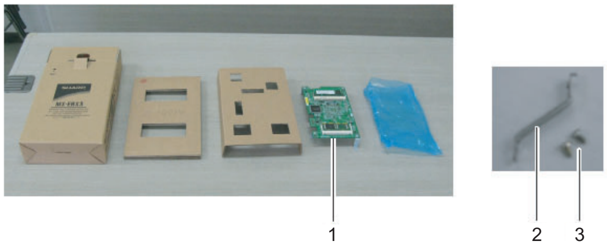
  The firmware must be revised to the latest version.

  The ACRE firmware version must be 02.00.J2 or later.

C. Type B/Type C ▲1

(1) Parts included





No.	Packed part names	Quantity
1	Scanner function expansion PWB	1
2	Mounting plate	1
3	Screw (M3 x 6 S tight)	2

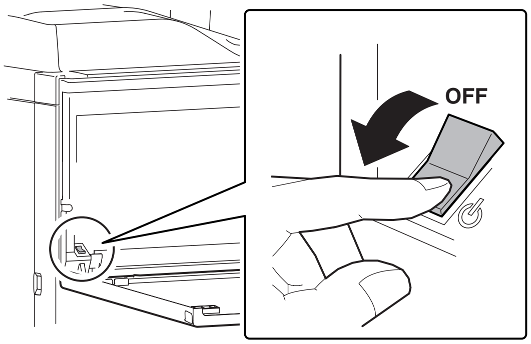
- The MX-EBX3 of type B is provided with all the parts necessary for installation.
- Firmware

  Basically, the firmware of the machine of type B may not revised. For double sure, however, use SIM22-5 to check the firmware version and revise to the latest version as needed.

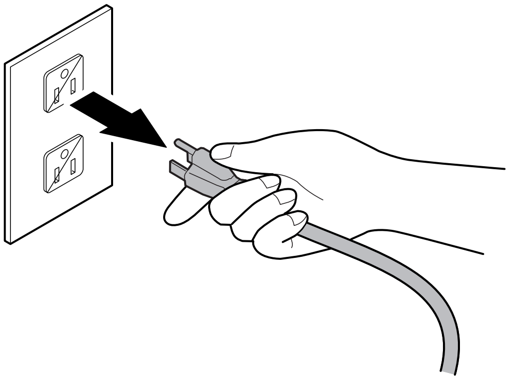
2. Installation

A. Turn off the power of the main unit

1) Turn the power switch located on the operation panel to the "OFF" position.
2) Open the front cabinet. Turn OFF the power switch in the front cabinet of the main unit.



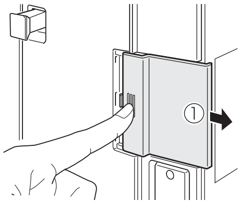
3) Disconnect the power plug of the main unit from the power outlet.



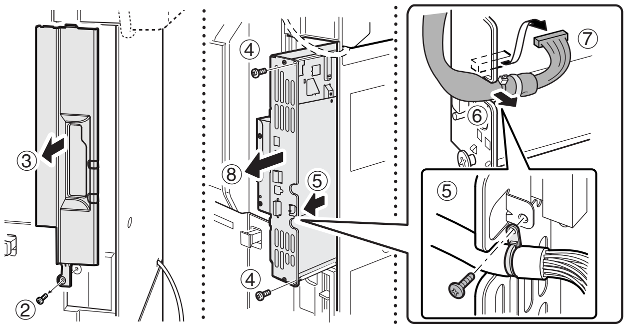
B. Pull out the control PWB

- If cables are connected to the control PWB unit, remove all cables.

1) Push the location indicated in the illustration to unlock, and remove the ozone filter cover from the right cabinet rear.

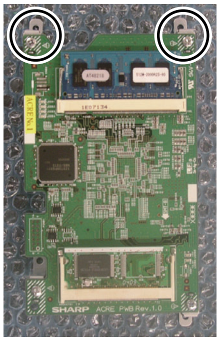


2) Remove the screw from the right cabinet rear.
3) Remove the right cabinet rear.
4) Remove the two screws from the control PWB unit.
    - If the fax box unit is installed, carry out steps 5), 6), and 7) additionally.
5) Pull out the control PWB unit and remove the snap band.
6) Remove the interface cable from the frame.
7) Remove the connector.
8) Pull out and remove the control PWB unit.



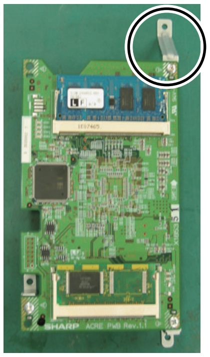
C. Installation of the scanner function expansion PWB

1) Remove two screws for fixing the scanner function expansion PWB from the control PWB.



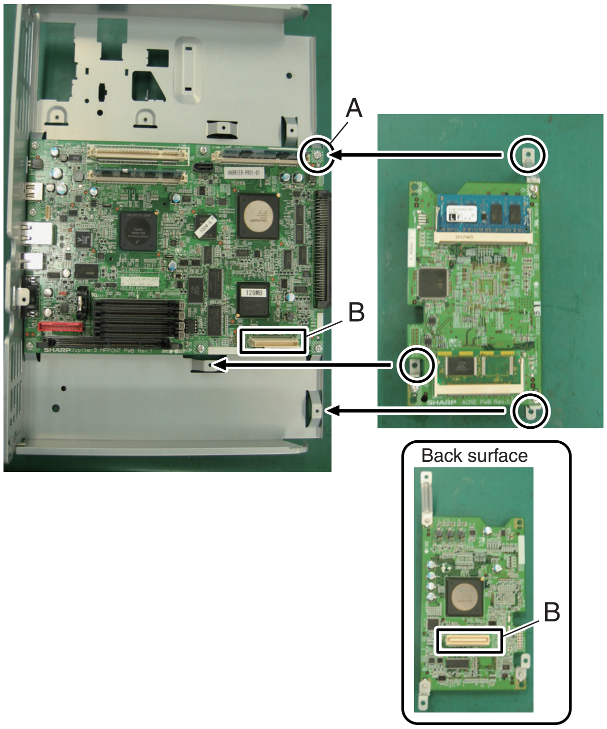
2) Use one of the fixing screw which were removed in the procedure 1) to attach the mounting plate for the MX-M503N/M453N/M363N/M283N to the scanner function expansion PWB.

NOTE: Do not use the S tight screw provided in the package.



3) Remove the S tight screw (section A) of the controller PWB. Use the removed S tight screw and the S tight screw provided in the package to attach the scanner function expansion PWB to the controller PWB.

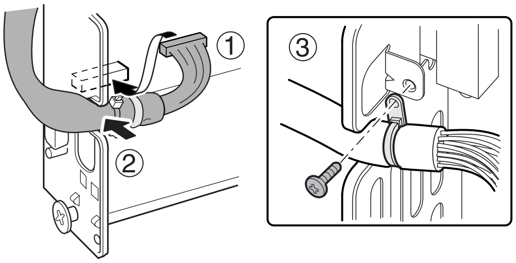
At that time, check to confirm that the connectors (section B) of the both PWB's are securely connected.



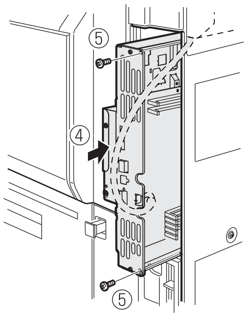
D. Reattach the control PWB and the right cabinet rear

- If the fax box unit is installed, carry out steps 1), 2), and 3) additionally.

1) Connect the interface cable to the control PWB unit.
2) Push the interface cable into the recessed portion of the sheet metal on the control PWB unit.
3) Attach the snap band to the sheet metal of the control PWB unit.



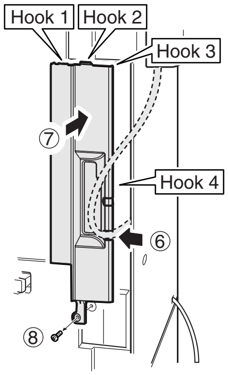
4) Push the control PWB unit into the main unit.
5) Secure the unit with the two screws.



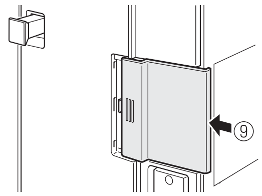
6) Fit the interface cable into the right cabinet rear cover.
7) Attach the right cabinet rear cover to the main unit.

At this time, check that the four hooks are properly fitted to the main unit.

8) Secure the right cabinet rear with the screw.



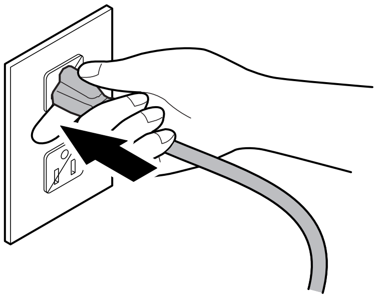
9) Attach the ozone filter cover to the main unit.



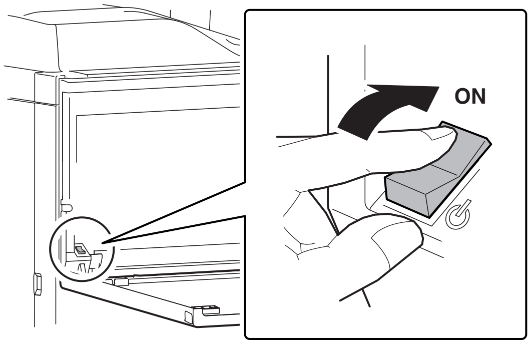
- Reconnect the cables that have been removed in step B to the original positions of the control PWB unit.

E. Turn ON the power of the main unit

1) Insert the power plug of the main unit into the power outlet.



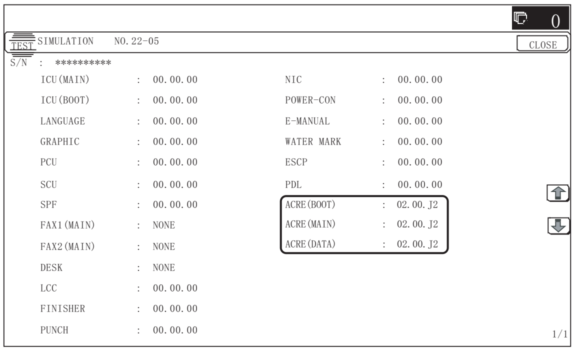
2) Open the front cabinet. Turn ON the power switch in the front cabinet of the main unit.



3) Turn ON the power switch on the operation panel.

4) Use SIM22-5 to check the firmware version of the MX-EBX3.

The ACRE version must be 02.00.J2 or later. If the version is 01.00.J2, revise the version according to the procedure of 5).



```
SIMULATION    NO.22-05
S/N  :  **********
    ICU(MAIN)      :  00.00.00          NIC           :  00.00.00
    ICU(BOOT)      :  00.00.00          POWER-CON     :  00.00.00
    LANGUAGE       :  00.00.00          E-MANUAL      :  00.00.00
    GRAPHIC        :  00.00.00          WATER MARK    :  00.00.00
    PCU            :  00.00.00          ESCP          :  00.00.00
    SCU            :  00.00.00          PDL           :  00.00.00
    SPF            :  00.00.00          ACRE(BOOT)    :  02.00.J2
    FAX1(MAIN)     :  NONE              ACRE(MAIN)    :  02.00.J2
    FAX2(MAIN)     :  NONE              ACRE(DATA)    :  02.00.J2
    DESK           :  NONE
    LCC            :  00.00.00
    FINISHER       :  00.00.00
    PUNCH          :  00.00.00
```

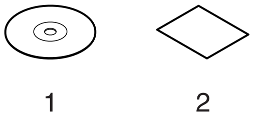
5) Use SIM49-1 to revise the firmware to the latest version.

Then, perform the procedure of 4).

[18] MX-PKX1

1. Unpacking

A. Parts included



No.	Packed part names	Quantity
1	CD-ROM (For Screen Font)	1
2	Product key sheet	1

NOTE:

- N model

  To set up the PS driver, do not use the CD-ROM which is included in the MX-PKX1 but use the PCL CD-ROM which is included in the main unit.

- U model

  In the case of the U model, the PCL CD ROM is not packed with the main unit. It is packed with the optional printer expansion kit MX-PB10 and MX-PB11.

2. Installation

<Note before installation>

NOTE: To enable PS3, the product key must be acquired. (For details of the acquiring method of the product key, refer to the distributor.)

Write down the acquired product key on the product key sheet and pass it to the user.

A. Preparation for enabling PS3

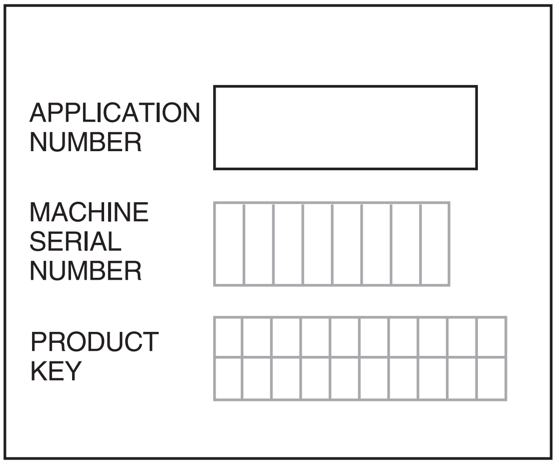
1) To enable PS3, enter the product key by the key operation of the copier machine.
   a) Touch [PRODUCT KEY INPUT].
   b) Touch the input column.
   c) Enter the product key with the 10-key, and touch [OK] key.
2) After completion of the product key entry, turn OFF the power switch and the main power switch and turn them ON.

B. PS3 check

1) Print the test page in PS3 fonts by the key operation of the operation panel. (Select the PS font list by the procedures described in the data list print printer test page of the system setup guide.)

   Check to confirm that printing is made normally.

Please keep below important information.
This information will use for other products.



APPLICATION NUMBER

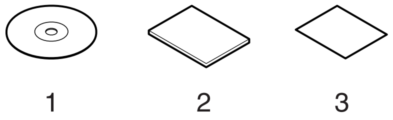
MACHINE SERIAL NUMBER

PRODUCT KEY

[19] MX-PUX1

1. Unpacking

A. Check the packed items



No.	Packed part names	Quantity
1	CD-ROM	1
2	Operation manual	1
3	Product key sheet	1

2. Installation

<Note before installation>

To enable XPS, an expansion memory (MX-SMX3) must be installed.

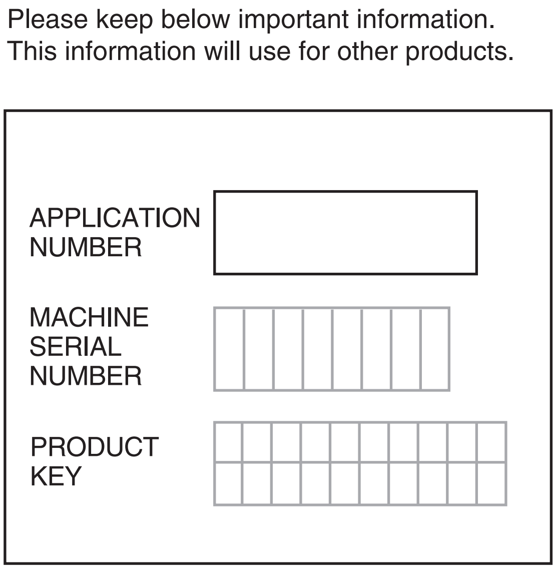
To install an expansion memory, refer to the descriptions of "[18] MX-SMX3" on this Installation manual.

A. Preparation for enabling XPS

1) To enable XPS, enter the product key by the key operation of the copier machine.
    a) Press the system setting key on the operation panel.
    b) Select page 2/2 of the system setting, and touch [Product key input] key.
    c) Touch the input column.
    d) Enter the product key with numeric key (10-key), and touch [Registration] key.
2) After completion of entry of the product key, turn OFF the power switch on the operation panel. Turn OFF the main power switch, then turn ON the power switch and the main power switch again.
3) Use the CD-ROM packed together with the machine to install the XPS driver.

    For installing procedures, refer to the software setup guide.

    Installation of the driver must be performed by the user or the serviceman with assistance or the user.



Please keep below important information.
This information will use for other products.

APPLICATION NUMBER

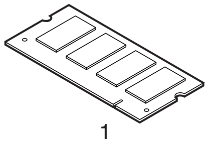
MACHINE SERIAL NUMBER

PRODUCT KEY

[20] MX-SMX3

1. Unpacking

A. Parts included

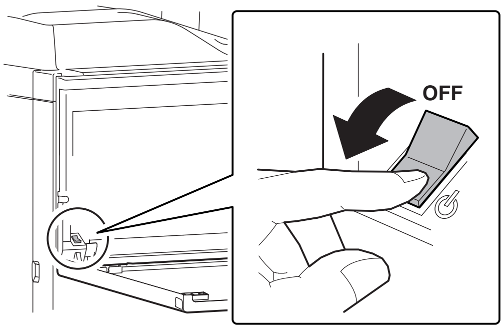


No.	Packed part name	Quantity
1	Expansion memory board	1

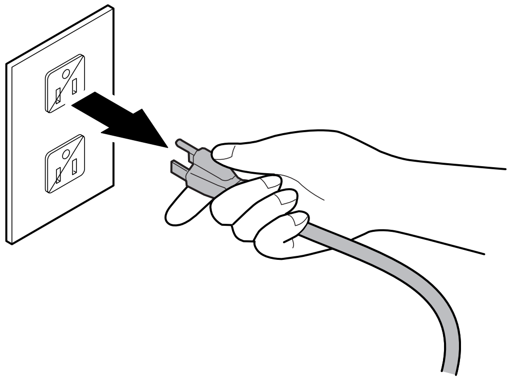
2. Installation

A. Turn off the power switches of the main unit.

1) Turn the power switch located on the operation panel to the "OFF" position.
2) After checking that the operation panel has gone out, open the front cabinet and turn the main power switch to the "OFF" position.



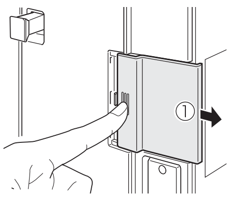
3) Remove the power plug of the main unit from the outlet.



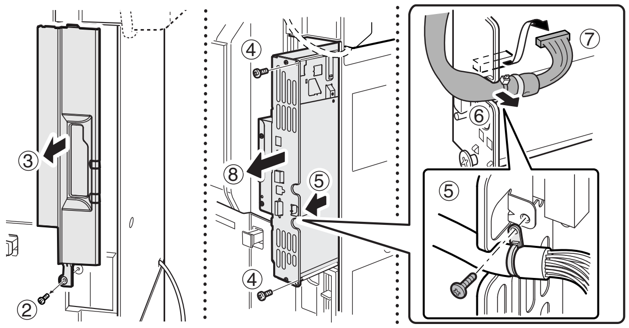
B. Pull out the control PWB.

- **If cables are connected to the control PWB unit, remove all cables.**

1) Push the location indicated in the illustration to unlock, and remove the ozone filter cover from the right cabinet rear.

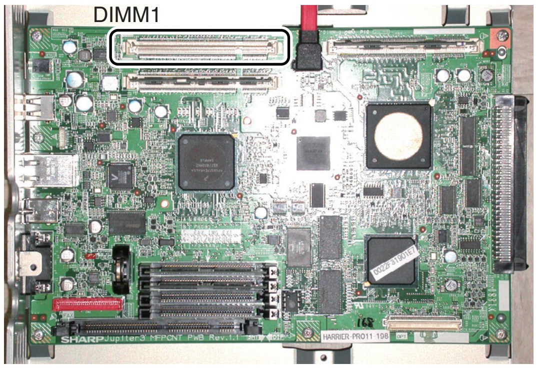


2) Remove the screw from the right cabinet rear.
3) Remove the right cabinet rear.
4) Remove the two screws from the control PWB unit.
   - **If the fax box unit is installed, carry out steps 5), 6), and 7) additionally.**
5) Pull out the control PWB unit and remove the snap band.
6) Remove the interface cable from the frame.
7) Remove the connector.
8) Pull out and remove the control PWB unit.



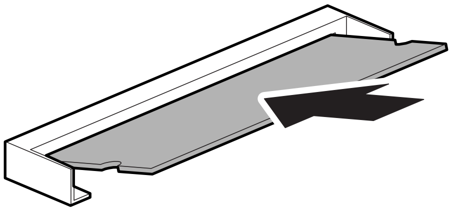
C. Installation of the expansion memory

1) Install an expansion memory board to the DIMM1 slot of the MFPC PWB.

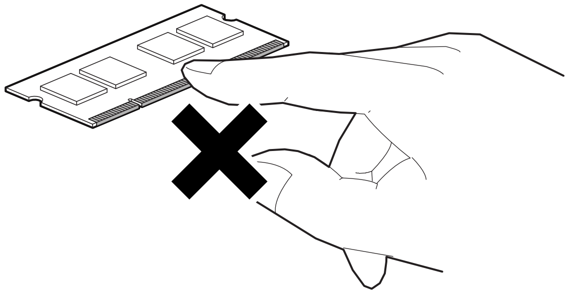


* Note for installation

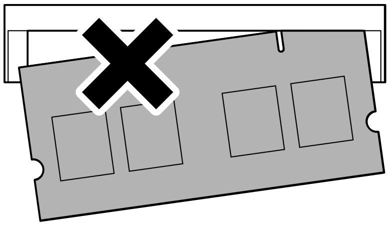
a) Insert the expansion memory board into the slot diagonally from above.



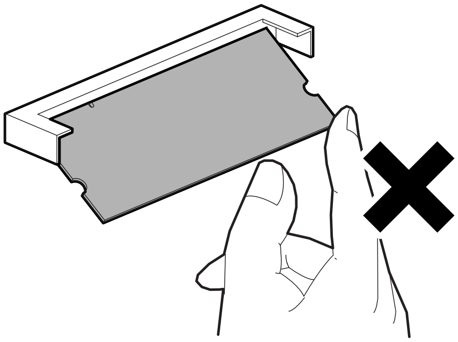
NOTE: When handling an expansion memory board, be careful not to touch the terminals.



NOTE: Avoid diagonal insertion of the expansion memory board for the slot.

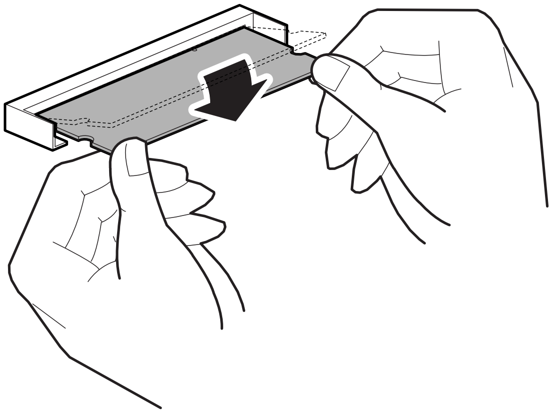


NOTE: Do not push one end of the expansion memory board by one hand.



b) Hold the both ends of the expansion memory board with both hands, and put down the expansion memory so that it is vertical to the PWB.

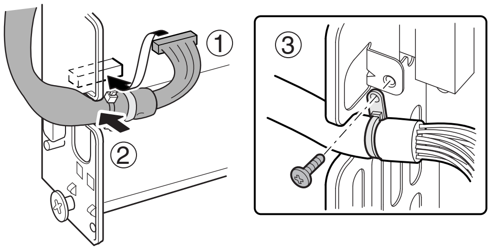
At that time, check to confirm that the hooks on the left and the right sides of the slot are securely locked.



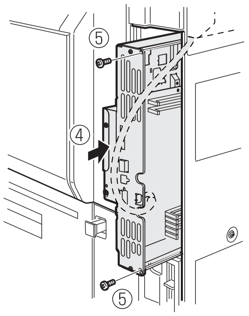
D. Reattach the control PWB and the right cabinet rear.

- **If the fax box unit is installed, carry out steps 1), 2), and 3) additionally.**

1) Connect the interface cable to the control PWB unit.
2) Push the interface cable into the recessed portion of the sheet metal on the control PWB unit.
3) Attach the snap band to the sheet metal of the control PWB unit.



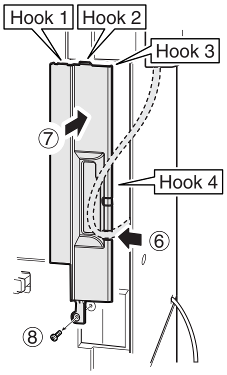
4) Push the control PWB unit into the main unit.
5) Secure the unit with the two screws.



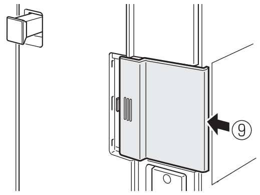
- **If the fax box unit is installed, carry out step 6) additionally.**

6) Fit the interface cable into the right cabinet rear cover.
7) Attach the right cabinet rear cover to the main unit.

   At this time, check that the four hooks are properly fitted to the main unit.
8) Secure the right cabinet rear with the screw.



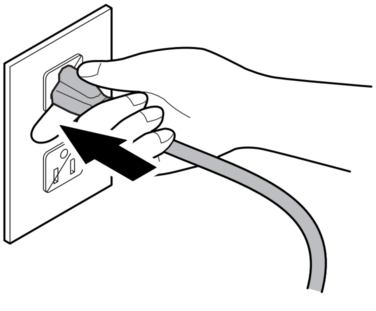
9) Attach the ozone filter cover to the main unit.



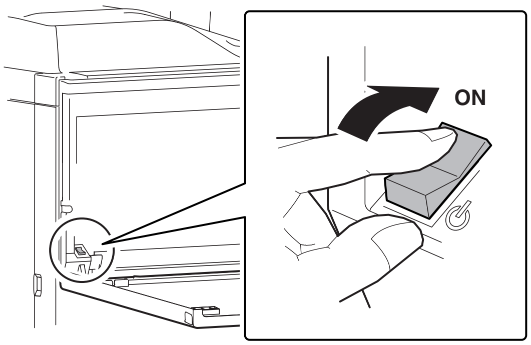
- **Reconnect the cables that have been removed in step B to the original positions of the control PWB unit.**

E. Turn on the main power switch of the main unit.

1) Insert the power plug of the main unit to the outlet.



2) Turn on the main power switch.

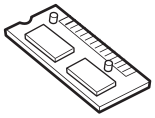


3) Turn on the power switch located on the operation panel.

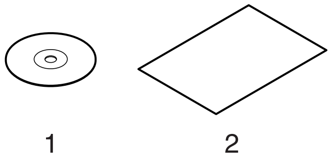
[21] AR-PF1

1. Unpacking

A. Parts included



AR-PF1 barcode font ROM PWB



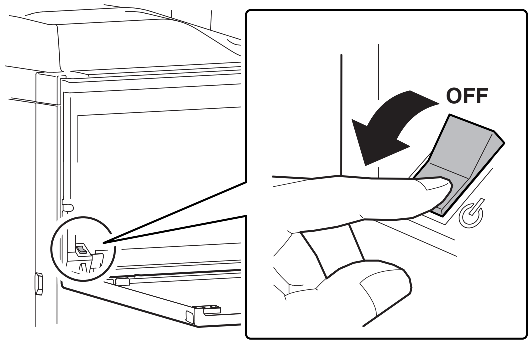
No.	Packed part names	Quantity
1	CD-ROM	1
2	Operation Manual	1

2. Installation

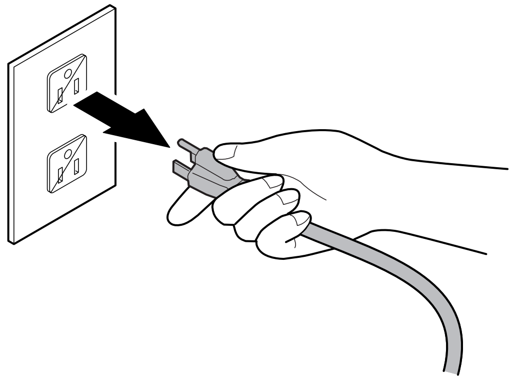
A. Turn off the power switches of the main unit.

1) Turn the power switch located on the operation panel to the "OFF" position.

2) After checking that the operation panel has gone out, open the front cabinet and turn the main power switch to the "OFF" position.



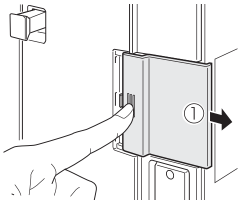
3) Remove the power plug of the main unit from the outlet.



B. Pull out the control PWB.

- **If cables are connected to the control PWB unit, remove all cables.**

1) Push the location indicated in the illustration to unlock, and remove the ozone filter cover from the right cabinet rear.



2) Remove the screw from the right cabinet rear.

3) Remove the right cabinet rear.

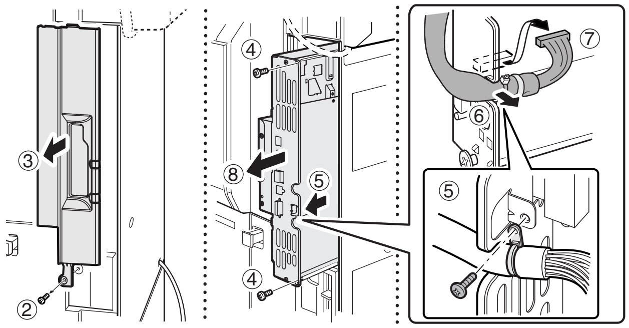
4) Remove the two screws from the control PWB unit.
   - **If the fax box unit is installed, carry out steps 5), 6), and 7) additionally.**

5) Pull out the control PWB unit and remove the snap band.

6) Remove the interface cable from the frame.

7) Remove the connector.

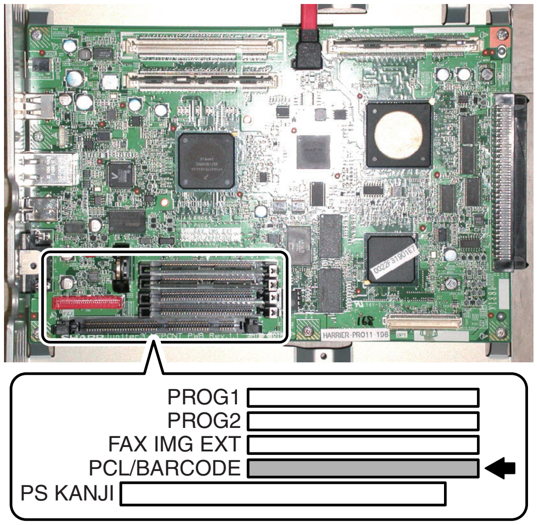
8) Pull out and remove the control PWB unit.



C. Installation of the barcode font ROM PWB

Install the barcode font ROM PWB to the barcode connector.

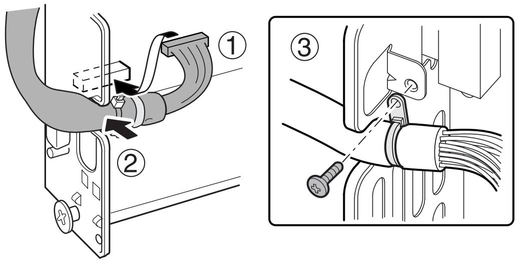
* Check to confirm that the silver push lever extends out when the PWB is installed.



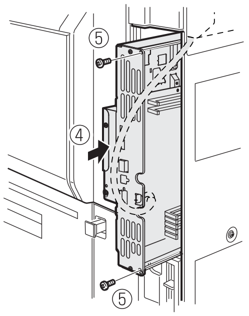
D. Reattach the control PWB and the right cabinet rear.

- **If the fax box unit is installed, carry out steps 1), 2), and 3) additionally.**

1) Connect the interface cable to the control PWB unit.
2) Push the interface cable into the recessed portion of the sheet metal on the control PWB unit.
3) Attach the snap band to the sheet metal of the control PWB unit.

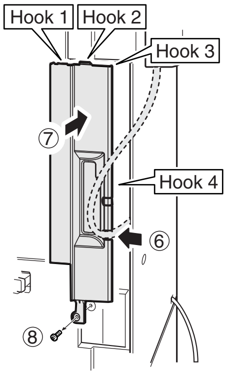


4) Push the control PWB unit into the main unit.
5) Secure the unit with the two screws.

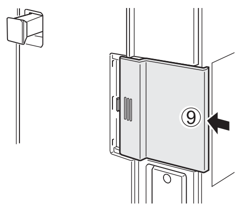


6) Fit the interface cable into the right cabinet rear cover.
7) Attach the right cabinet rear cover to the main unit.

   At this time, check that the four hooks are properly fitted to the main unit.
8) Secure the right cabinet rear with the screw.



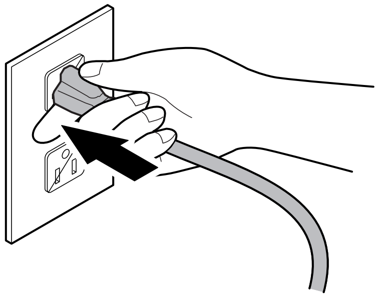
9) Attach the ozone filter cover to the main unit.



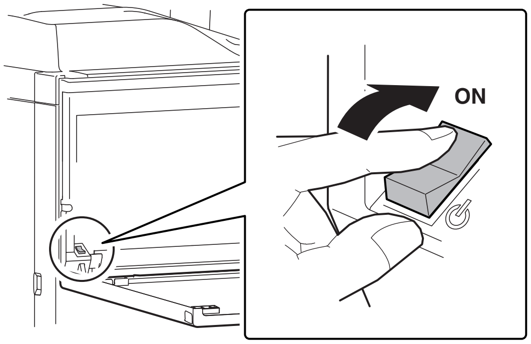
- Reconnect the cables that have been removed in step B to the original positions of the control PWB unit.

E. Turn on the main power switch of the main unit.

1) Insert the power plug of the main unit to the outlet.



2) Turn on the main power switch.



3) Turn on the power switch located on the operation panel.

F. PCL expansion font list check

1) PCL expansion font list check

   Select the PCL expansion font list by the procedures described in the printer test page in the system setup guide.

   Check to confirm that the barcode font list is printed.

G. Font list

Font No.	Font name
1	Code128TT-Regular
2	Code128-NarrowTT-Regular
3	Code128-WideTT-Regular
4	Code39HalfInch-Regular
5	Code39OneInch-Regular
6	Code39QuarterInch-Regular
7	Code39SmallHigh-Regular
8	Code39Slim-Regular
9	Code39SmallLow-Regular
10	Code39SmallMedium-Regular
11	Code39Wide-Regular
12	Codabar-Regular
13	Interleaved2of5-Regular
14	Interleaved2of5-Thin-Regular
15	OCR-A
16	OCR-B
17	OCR-B-C39-Regular
18	UPC-Half
19	UPC-Half-Bars
20	UPC-HalfMusic
21	UPC-HalfNarrow
22	UPC-HalfThin
23	UPC-Tall-Regular
24	UPC-TallBarsThin-regular
25	UPC-TallMusicThin-Regular
26	UPC-TallNarrow-Regular
27	UPC-TallThin-regular
28	ZipCodeBarcode-Regular

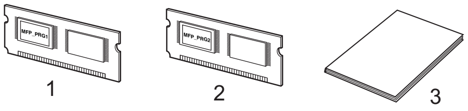
⚠1 [22] MX-FR14U/FR14/FR15U/FR15/FR24U

⚠1
- * MX-FR14U/FR14
  For model MX-M283N/M363N/M453N/M503N
  For model MX-M363U/M453U/M503U with HDD
- * MX-FR15U/FR15
  For model MX-M363U/M453U/M503U without HDD
- * MX-FR24U
  For model MX-M282N/M362N/M452N/M502N

1. Unpacking

A. Check the packed items

1) Check that all the items are included in the package.



No.	Packed part names	Quantity
1	MFP_PRG1 ROM	1
2	MFP_PRG2 ROM	1
3	Operation manual	1

2. Installation

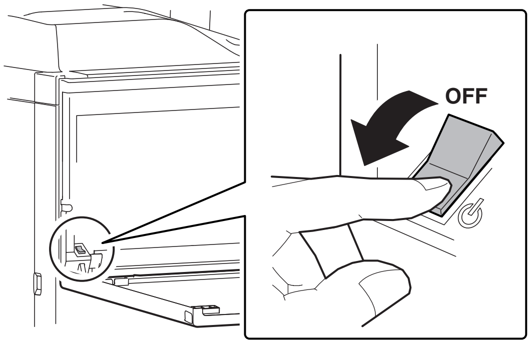
<Note before installation>

- To enable the data security function, the product key must be acquired. (For the method of acquiring the product key, contact the dealer.)
- Before installing the data security kit, be sure to perform backup of data stored in the memory (including HDD) of the main unit.

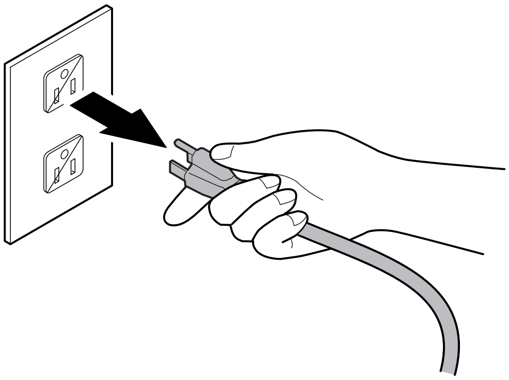
  When the data security kit is installed, all the job data stored in the memory (including HDD) of the main unit will be lost.
- If the LINE indicator or the DATA indicator for the printer and image transmission on the operation panel is lit or blinking, data that has not been processed remains in the memory of the main unit (including HDD). Output or transmit all the data to clear the data remaining in the main unit and then start installation. (Check to insure that neither the LINE indicator nor the DATA indicator on the operation panel does light up or blink.)

A. Turn off the power switches of the main unit.

1) Turn the power switch located on the operation panel to the "OFF" position.
2) After checking that the operation panel has gone out, open the front cabinet and turn the main power switch to the "OFF" position.



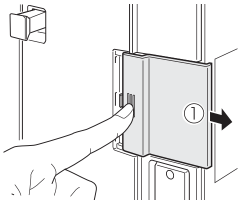
3) Remove the power plug of the main unit from the outlet.



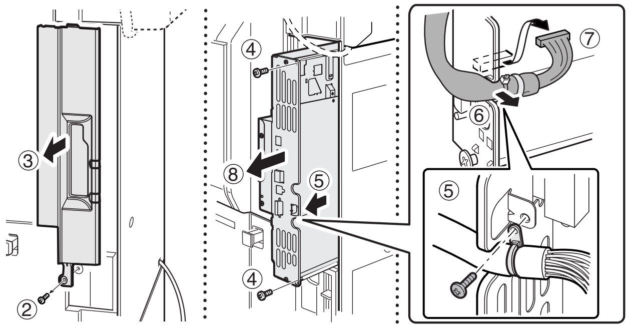
B. Pull out the control PWB.

- **If cables are connected to the control PWB unit, remove all cables.**

1) Push the location indicated in the illustration to unlock, and remove the ozone filter cover from the right cabinet rear.



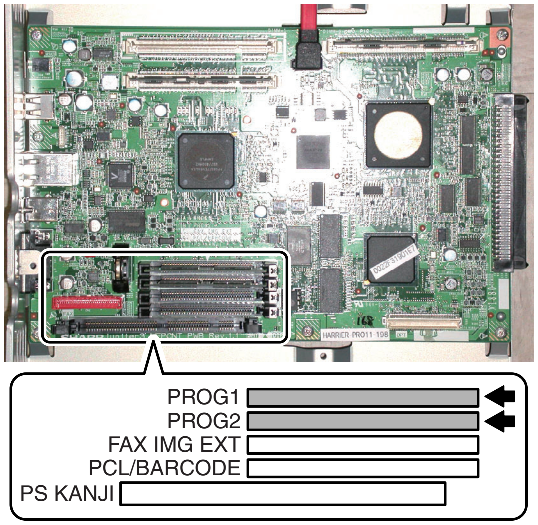
2) Remove the screw from the right cabinet rear.
3) Remove the right cabinet rear.
4) Remove the two screws from the control PWB unit.
   - **If the fax box unit is installed, carry out steps 5), 6), and 7) additionally.**
5) Pull out the control PWB unit and remove the snap band.
6) Remove the interface cable from the frame.
7) Remove the connector.
8) Pull out and remove the control PWB unit.



C. Mount the data security kit ROMs to the control PWB unit.

Remove the ROMs (PROG1 and PROG2) from the control PWB and replace them with the data security kit ROMs (MFP_PRG1 and MFP_PRG2).

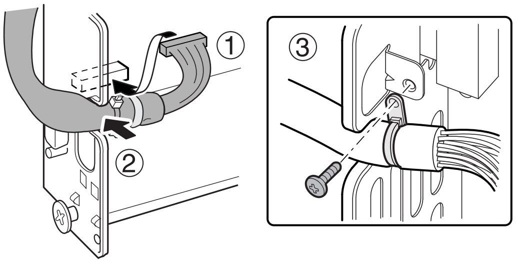
When mounting the data security kit ROMs, insert them to the same positions in the same orientations as those before replacement until they click and ensure that the inserted ROMs are locked with the sockets.



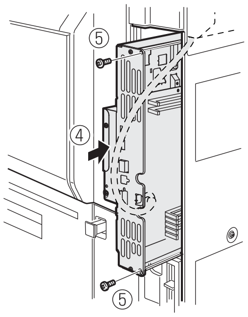
D. Reattach the control PWB and the right cabinet rear.

- **If the fax box unit is installed, carry out steps 1), 2), and 3) additionally.**

1) Connect the interface cable to the control PWB unit.
2) Push the interface cable into the recessed portion of the sheet metal on the control PWB unit.
3) Attach the snap band to the sheet metal of the control PWB unit.

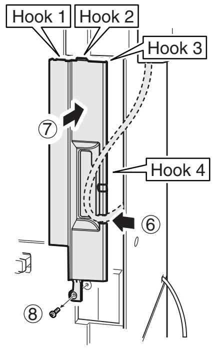


4) Push the control PWB unit into the main unit.
5) Secure the unit with the two screws.

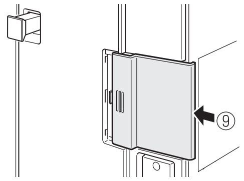


- **If the fax box unit is installed, carry out step 6) additionally.**

6) Fit the interface cable into the right cabinet rear cover.
7) Attach the right cabinet rear cover to the main unit.
   At this time, check that the four hooks are properly fitted to the main unit.
8) Secure the right cabinet rear with the screw.



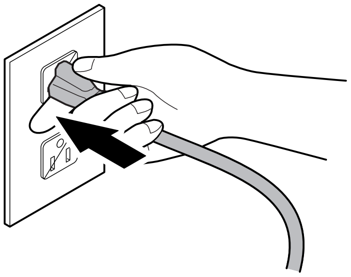
9) Attach the ozone filter cover to the main unit.



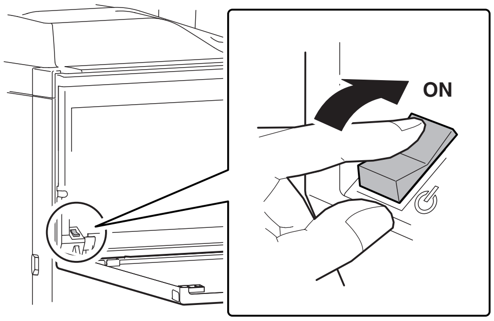
- **Reconnect the cables that have been removed in step B to the original positions of the control PWB unit.**

E. Turn on the main power switch of the main unit.

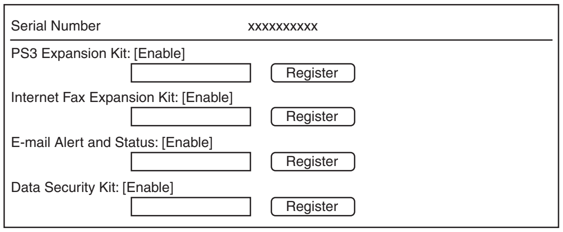
1) Insert the power plug of the main unit to the outlet.



2) Turn on the main power switch.



3) Turn on the power switch located on the operation panel.
4) Enter the product key of the DSK.



Serial Number xxxxxxxxxx

PS3 Expansion Kit: [Enable]

☐ Register

Internet Fax Expansion Kit: [Enable]

☐ Register

E-mail Alert and Status: [Enable]

☐ Register

Data Security Kit: [Enable]

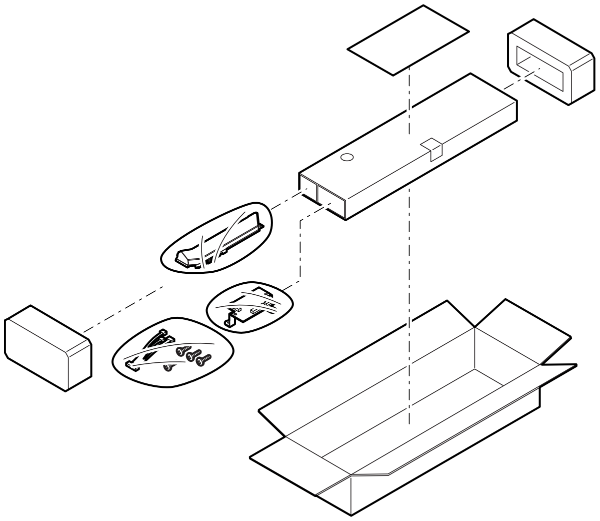
☐ Register

1 : '10/Jun/18

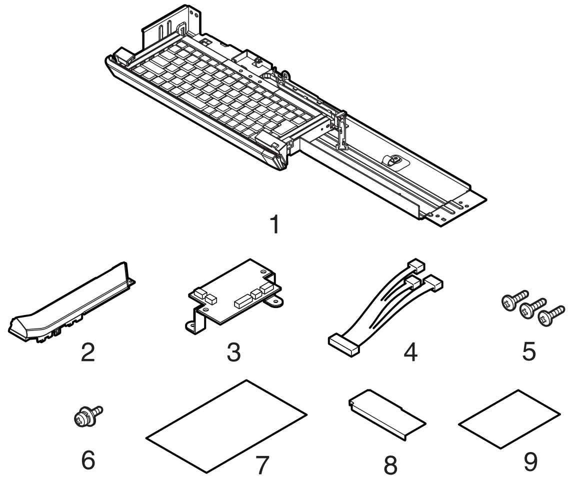
[23] MX-KBX2

1 * This option cannot be installed to the following models.
MX-M363U/M453U/M503U
MX-M282N/M362N/M452N/M502N

1. Unpacking



A. Check the parts in the package



No.	Name of parts in the package	Quantity
1	Keyboard unit	1
2	Operation base plate C	1
3	USB hub PWB unit	1
4	Mother PWB connection harness	1
5	Fixing screw A (M4 x 8 S tight)	3
6	Fixing screw B (M3 x 8 3-point system)	1
7	Protection sheet	1
8	Black sheet	1
9	Installing Procedures	1

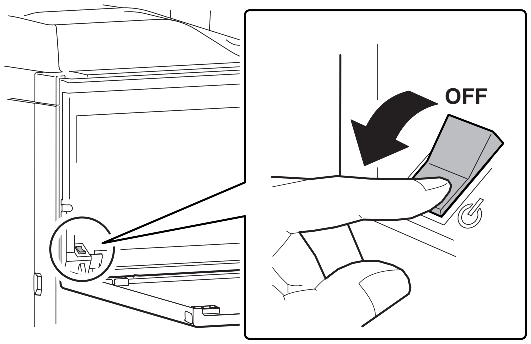
2. Installation

<Note before installation>

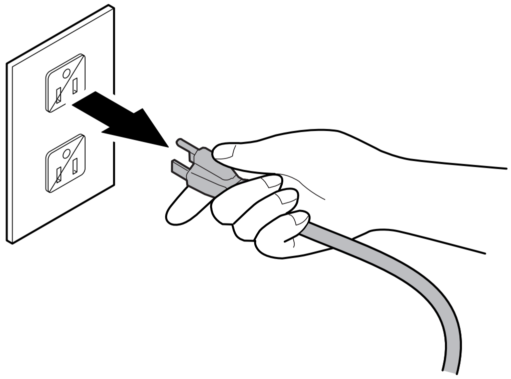
* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

A. Turn off the power of the main unit

1) Turn OFF the power switch on the operation panel.
2) Open the front cabinet.
Turn OFF the power switch in the front cabinet of the main unit.

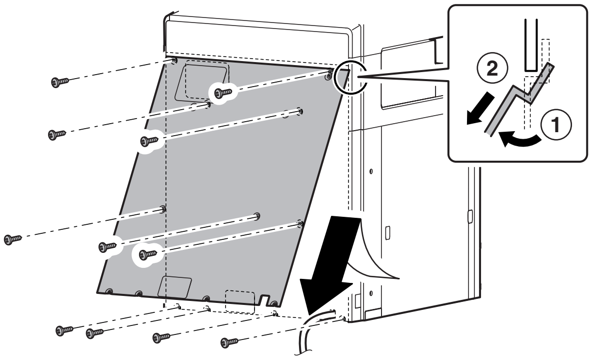


3) Disconnect the power plug of the main unit from the power outlet.

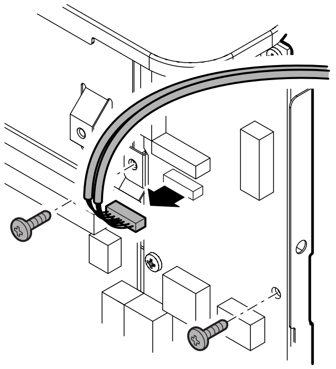


B. Install the USB hub PWB.

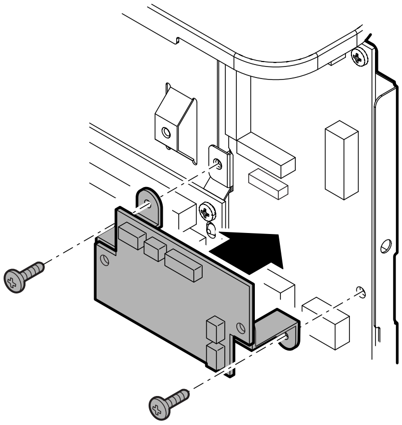
1) Remove the screw, and remove the rear cabinet.



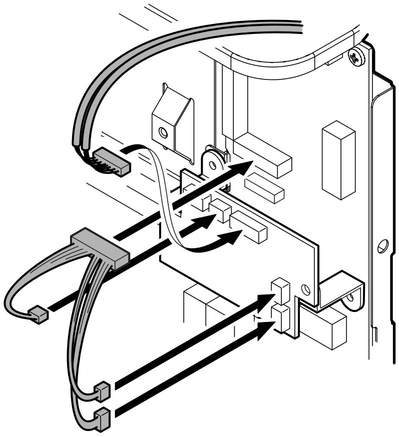
2) Disconnect the connector of the scan mother harness, and remove the screws.



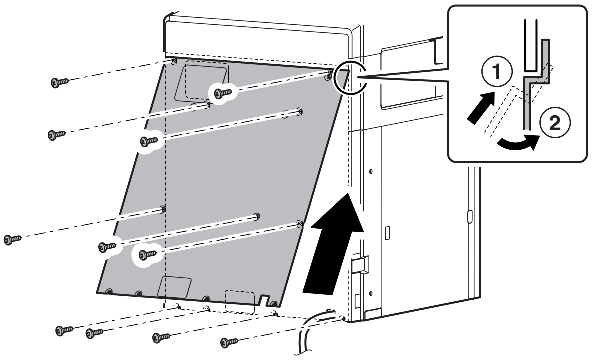
3) Attach the USB hub PWB unit (part No.3 in the package) with the removed screws.



4) Connect the connector of the scan mother harness, and connect the mother PWB connection harness (part No.4 in the package).

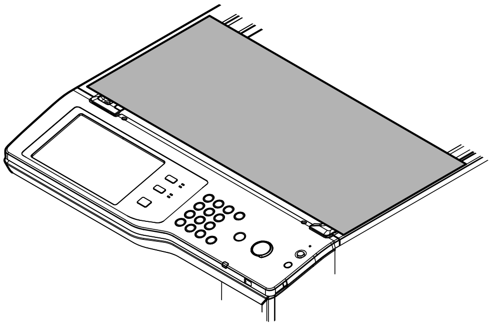


5) Attach the rear cabinet, and fix it with the screws.

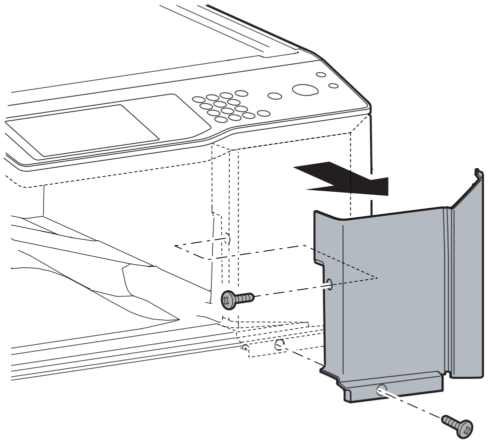


C. Install the base unit

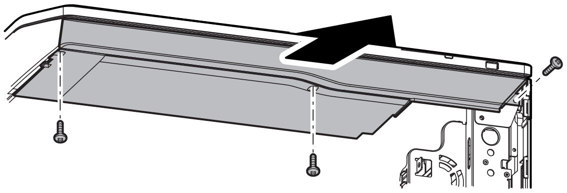
1) Place the protection sheet (part No.7 in the package) on the table glass.



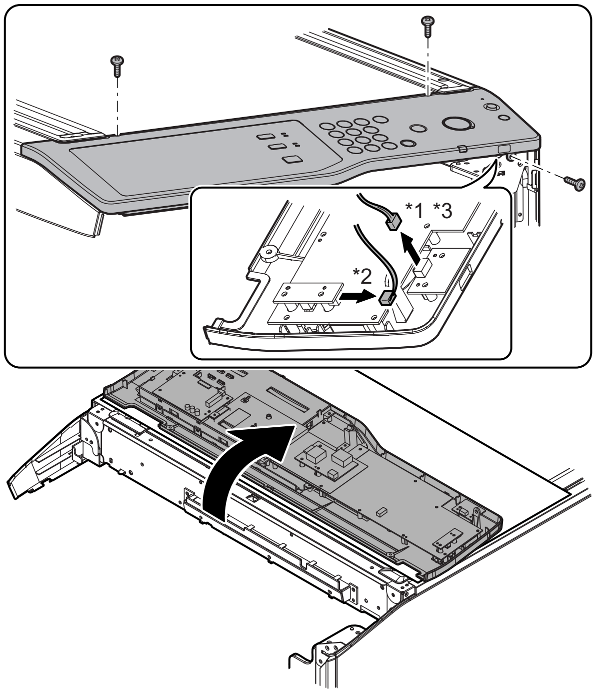
2) Open the front cabinet, and remove the screw, and remove the front cabinet upper.



3) Remove the screw, and remove the operation base plate unit.



4) Remove the screws and disconnect two connectors. Place the operation panel upside down on the protection sheet.

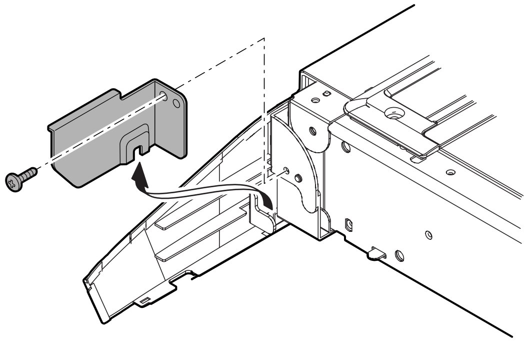


*1: Don't pull the lead wire. The connector can be locked. Hold the housing section of connector, pull out it.

*2: Slowly pull the lead wire and disconnect the connector.

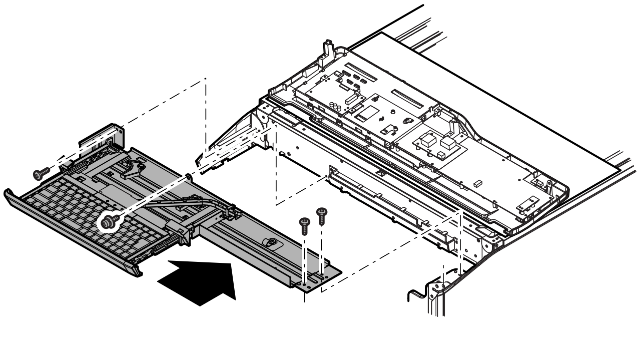
*3: There is a locking section on the reverse side. Use care for that.

5) Remove the screw, and remove the panel angle.



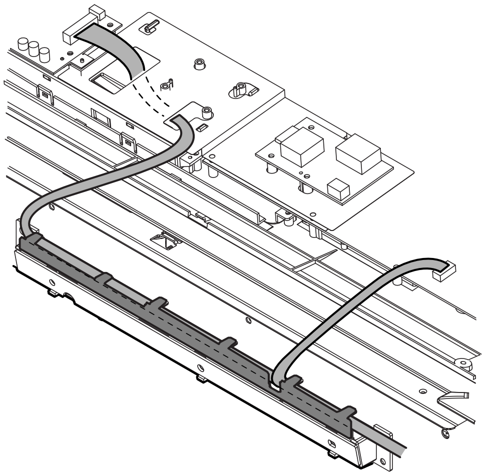
6) Install the keyboard unit (part No.1 in the package), and fix it with the fixing screw A (part No.5 in the package) and the fixing screw B (part No.6 in the package).

* When fixing the fixing screw B, use the short screwdriver or the small screwdriver.



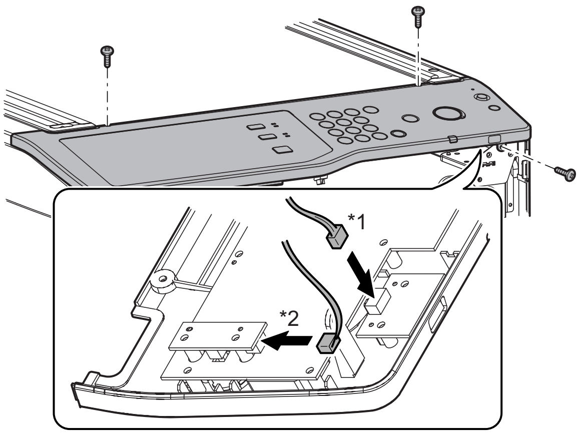
D. Install the operation panel

1) Check that each harness is engaged with the rib.



2) Connect the connector.

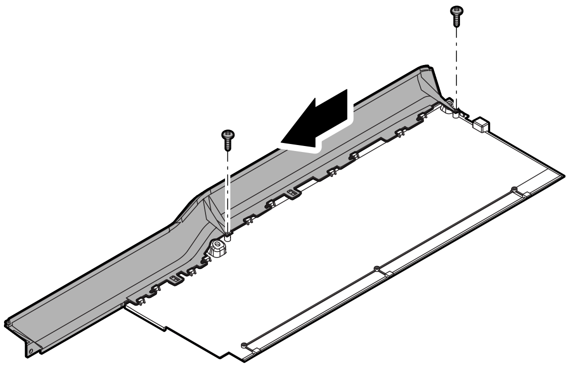
3) Install the operation panel to the main unit, and fix it with the screw.



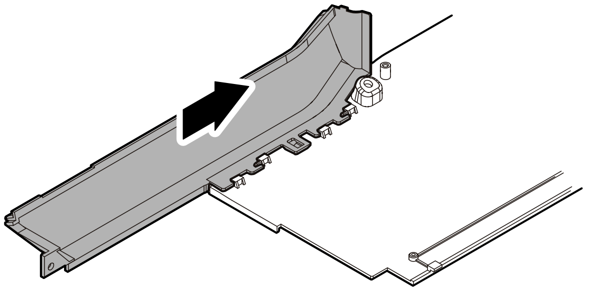
*1: Be careful to the place of the connector lock, it is on the other side.

*2: Insert the connector all the way.

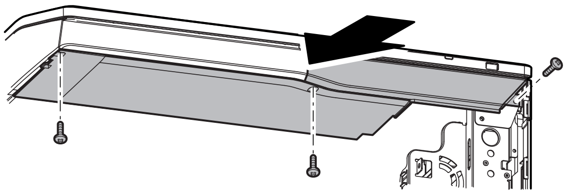
4) Remove the screw, and remove the operation base plate B from the operation base plate unit.



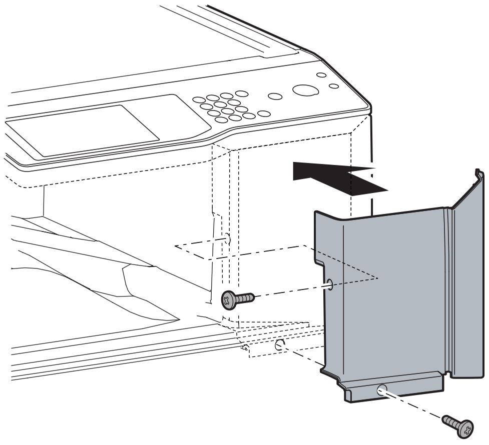
5) Slide and attach the operation base plate C (part No.2 in the package) to the operation base plate unit.



6) Install the operation base plate unit to the main unit, and fix it with the screws.

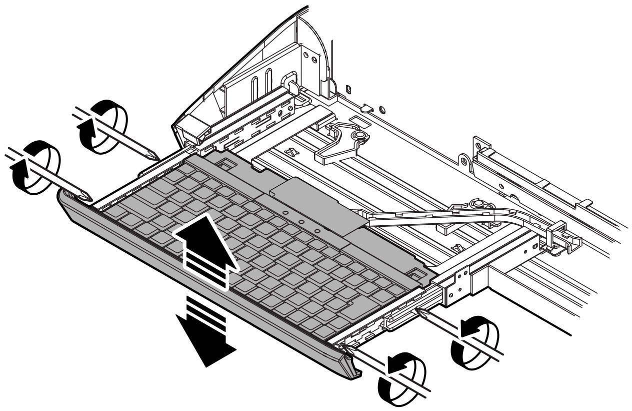


7) Attach the front cabinet upper, and fix it with the screws.



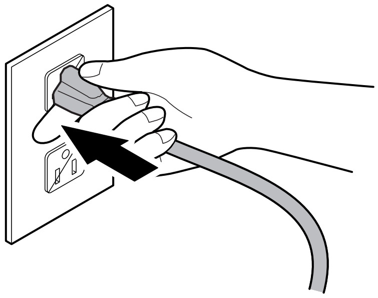
E. Adjust the position of the key top unit

1) When the cabinet position of the key top unit is shifted, loosen the screws which are fixing the key top unit and adjust the position up and down. Then tighten the screws.

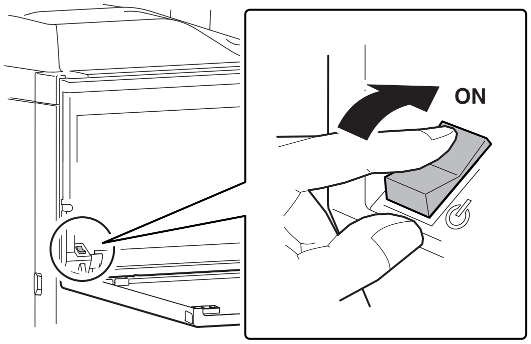


F. Turn on the power of the main unit

1) Insert the power plug of the main unit into the power outlet.



2) Turn ON the power switch inside the front cabinet.



3) Turn ON the power switch on the operation panel.

G. Check the keyboard input

1) Touch [IMAGE SEND] on the touch panel.
2) Touch [SEND SETTING] on the touch panel.
3) Touch [FILE NAME/DIRECT ENTRY] on the touch panel.
4) Enter the keyboard input, and check the input on the touch panel.

H. Language setting

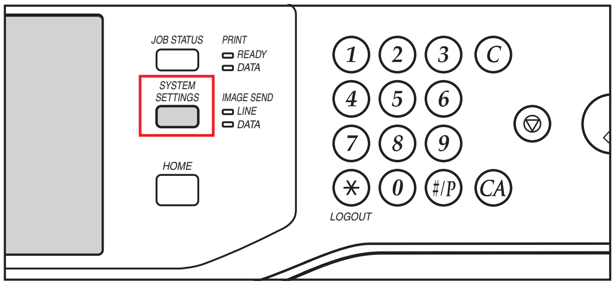
Targets:

The model for 8.5 inch LCD panel with option keyboard installed.

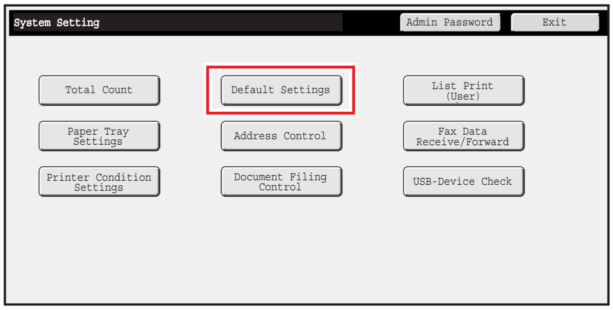
The language selected should be the same as the layout of the option keyboard, otherwise false input occur.

1) Press the [SYSTEM SETTINGS] key.

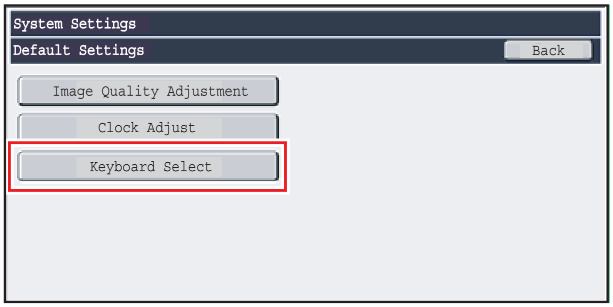
The following menu screen appears on the touch panel.


JOB STATUS
PRINT
READY
DATA
SYSTEM SETTINGS
IMAGE SEND
LINE
DATA
HOME
1
2
3
C
4
5
6
7
8
9
*
0
#/P
CA
LOGOUT

2) Touch [Default Settings].

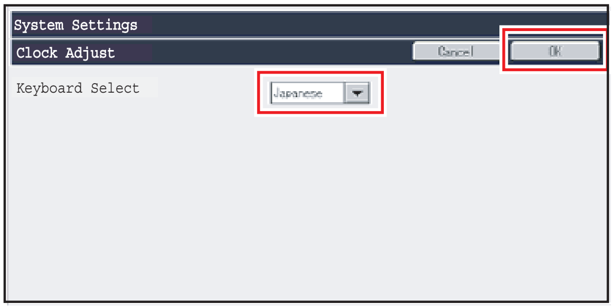

System Setting
Admin Password
Exit
Total Count
Default Settings
List Print (User)
Paper Tray Settings
Address Control
Fax Data Receive/Forward
Printer Condition Settings
Document Filing Control
USB-Device Check

3) Touch [Keyboard Select].


System Settings
Default Settings
Back
Image Quality Adjustment
Clock Adjust
Keyboard Select

4) Select your desired language and touch [OK].
The keyboard layouts that can be selected are shown below.

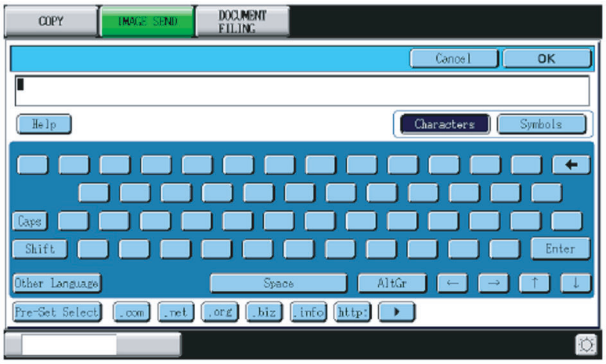
English (US)	English (UK)	French	German	Swedish	Norwegian
Finnish	Danish	Russian	Greek	Turkish	


System Settings
Clock Adjust
Cancel
OK

Keyboard Select Japanese

5) Press [CA] key to exit from system setting mode.
End of language setting.

The layout of the keyboard that appears in the text entry screens can be changed.


COPY
IMAGE SEND
DOCUMENT FILING
Cancel
OK
Help
Characters
Symbols
Caps
Shift
Enter
Other Language
Space
AltGr
←
→
↑
↓
Pre-Set Select
.com
.net
.org
.biz
.info
http:

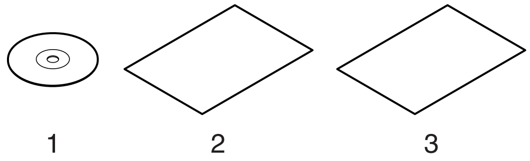
[24] MX-AMX1

* **This option requires installation of a HDD, and cannot be used with the models having no HDD.**

When this option is used with the U model, the MX-PB11 and the MX-NSX1 options must be installed.

1. Unpacking

A. Check the packed items



No.	Packed part names	Quantity
1	CD-ROM	2
2	MX-AMX1 GETTING STARTED GUIDE	1
3	Sharpdesk license kit Operation Manual	1

2. Installation

<Note before installation>

To enable the Application Integration Module function, the product key must be acquired.

A. Make preparations to enable the Application Integration Module function.

1) To enable the Application Integration Module function, enter the product key by the key operation of the operation panel.
   a) Press the system setting key on the operation panel.
   b) Select page 2/2 of the system setting, and touch [Product key input] key.
   c) Touch the input column.
   d) Enter the product key with numeric key (10-key), and touch [Registration] key.
2) After entering the product key information, turn OFF the power switch and the main power switch of the machine, and turn them ON again. (For the models with the main power switch only, turn OFF/ON the main power switch only.)

B. Check the operation of the Application Integration Module function.

1) Send image data and meta data by referring to MX-AMX1 GETTING STARTED GUIDE (included in package). Check to confirm that image data and meta data are properly received.

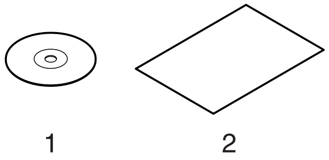
[25] MX-AMX2

* **This option requires installation of a HDD, and cannot be used with the models having no HDD.**

When this option is used with the U model, the MX-PB11 option must be installed.

1. Unpacking

A. Check the packed items



No.	Packed part names	Quantity
1	CD-ROM	1
2	Operation manual	1

2. Installation

<Note before installation>

* To enable the external account kit, the product key must be acquired.

A. Make preparations for enabling the Application Communication Module

(1) To enable the Application Communication Module, enter the product key by key operations on the operation panel.

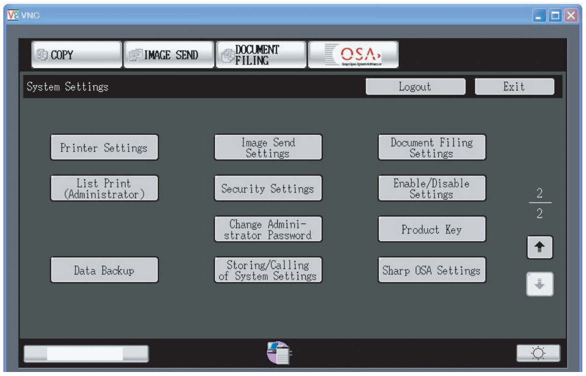
1) Press the [SYSTEM SETTINGS] key.
2) Touch the [Admin Password] key.
3) Touch the [Password] key and enter the administrator password.
4) Touch the [OK] key.
5) Touch the [Product Key] key.

   You may have to scroll down the screen to show this key.
6) Touch the input column.
7) Enter the product key with the 10-key, and touch [OK] key.

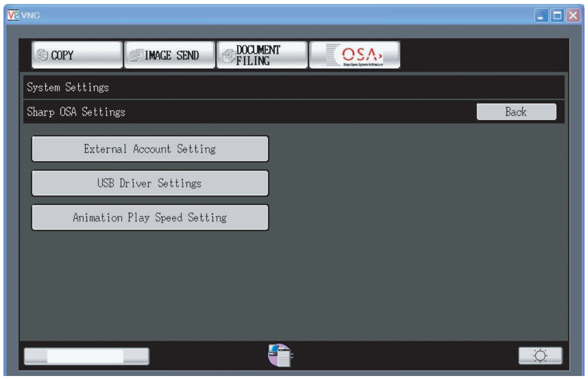
- The product key can be entered from the Web page.
  For details, refer to [HELP] on the right upper side of the Web page.

(2) OSA Settings

1) By performing procedure (1), "OSA setting" key is added to the menu screen of the system setting or the key operator program.


VNC
COPY
IMAGE SEND
DOCUMENT FILING
OSA
System Settings
Logout
Exit
Printer Settings
Image Send Settings
Document Filing Settings
List Print (Administrator)
Security Settings
Enable/Disable Settings
Change Administrator Password
Product Key
Data Backup
Storing/Calling of System Settings
Sharp OSA Settings
2
2

2) When "OSA setting" key is touched, the menu below is displayed.


VNC
COPY
IMAGE SEND
DOCUMENT FILING
OSA
System Settings
Sharp OSA Settings
Back
External Account Setting
USB Driver Settings
Animation Play Speed Setting

3) When the [Default Display Setting] key is touched, the screen for setting the default display that appears when the [DOCUMENT FILING] key is pressed will appear.
   - To set the base screen of document filing as the default display, touch the [Document Filing] key.
   - To set the external application selection screen as the default display, touch the [OSA] key.
4) After selecting the setting, touch the [OK] key.
   - "Default Display Setting" also appears in "Document Filing Settings" in the system settings (administrator).
   - If the [CA] key is pressed in document filing mode or OSA mode, the base screen of that mode will appear regardless of the default display setting.

B. External application setup

1) Click the [Login] button that appears in the upper right-hand corner of the Web page.
2) Select [Administrator] in [Login Name] and then enter your password.
3) Click [External Applications Setup] in the menu frame.
4) Configure the standard application settings.
   - Up to 8 standard applications can be stored.
   - For each setting item, refer to [Help].

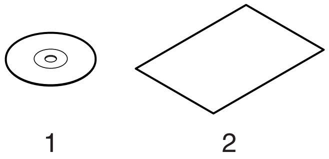
[26] MX-AMX3

*** This option requires installation of a HDD, and cannot be used with the models having no HDD.**

When this option is used with the U model, the MX-PB11 option must be installed.

1. Unpacking

A. Check the packed items



No.	Packed part names	Quantity
1	CD-ROM	1
2	Operation manual	1

2. Installation

<Note before installation>

* To enable the external account kit, the product key must be acquired.

A. Make preparations for enabling the external account kit.

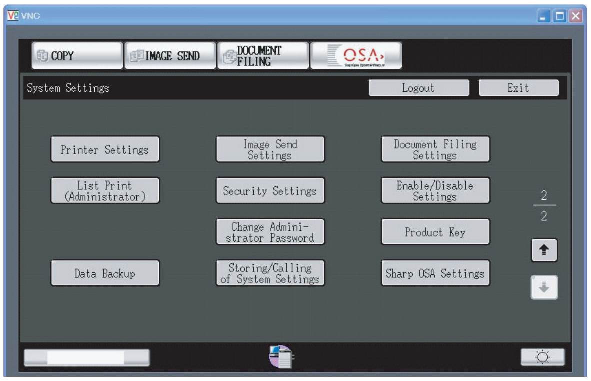
(1) To enable the external account kit, enter the product key by key operations on the operation panel.

1) Press [SYSTEM SETTINGS] key.
2) Touch [Administrator Password] key.
3) Touch [Password] key and enter the administrator password.
4) Touch [OK] key.
5) Scroll the screen, and touch [Product Key] key.
6) Touch the input column.
7) Enter the product key with 10-key, and touch [OK] key.

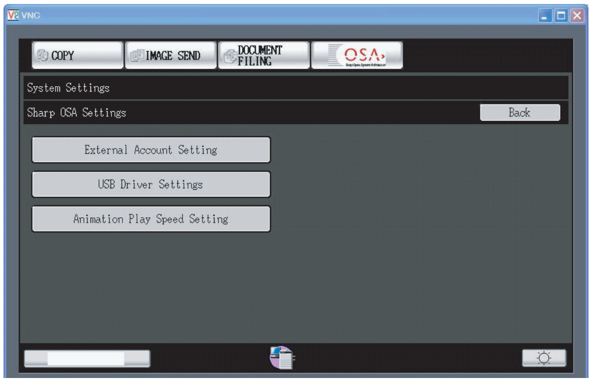
- The product key can be entered from the Web page. For details, refer to [HELP] on the right upper side of the Web page.

(2) Make the OSA setting.

1) By the procedure of (1), "OSA setting" key is added to the menu screen of the system setting or the key operator program.


VNC
COPY
IMAGE SEND
DOCUMENT FILING
OSA
System Settings
Logout
Exit
Printer Settings
Image Send Settings
Document Filing Settings
List Print (Administrator)
Security Settings
Enable/Disable Settings
2
2
Change Administrator Password
Product Key
Data Backup
Storing/Calling of System Settings
Sharp OSA Settings

2) When "OSA setting" key is touched, the menu below is displayed.


VNC
COPY
IMAGE SEND
DOCUMENT FILING
OSA
System Settings
Sharp OSA Settings
Back
External Account Setting
USB Driver Settings
Animation Play Speed Setting

3) When [External Account Setting] key is touched, the screen for setting the calculation by the external application and for enabling user authentication is displayed. (The two settings are linked together.)
   - When the check box of [External Account Management is Enabled] is checked:

     The result of the job completion is notified to the external application set on the Web page. (The default is "Disabled.")
   - If the check box is OFF, check cannot be made.
   - When the check box of [Authentication by the External Account Application is Enabled] is checked:

     When the machine is booted, the login screen can be acquired from the application set on the Web page. (The default is "Disabled.")
4) After setting, when [OK] key on the force account setting screen is touched, the message to urge rebooting of the machine is displayed. To enable the setting, touch [OK] key and reboot the machine.

B. Set the external application.

1) Click [Login] button on the right upper side of the Web page.
2) Select [Administrator] from [Login Name] and enter the password.
3) Click [External Application Setting] on the menu frame.
4) Click [External Account].
5) Set the external account application.
   - For each setting item, refer to [HELP]. To enable the setting on the Web page, reboot the machine.

[27] Dehumidifying heater

1. Parts included

Kit name	Kit part code	Package part No.	Description	Part code	Price rank	Q'ty	Remarks
Heater electric component kit	DKIT-0391FCZZ	1	Dehumidifier heater switch	QSW-C9294QCZZ	AF	1	
		2	Label for heater switch	TLABZ5256FCZZ	AH	1	
		3	Supporter	LSUPP0118FCPZ	AB	5	
		4	WH PWB	CPWBF1675FC338	AQ	1	
		5	AC-WH harness 1	DHAI-3755FCZZ	AH	1	
		–	AC-WH harness 2	DHAI-3756FCZZ	AE	1	Not used in this model
Heater kit	DKIT-0385FCZZ (120V series) DKIT-0386FCZZ (230V series)	6	Heater (120V series)	RHETP0131FCPZ	BE	1	
			Heater (230V series)	RHETP0132FCPZ			
		7	Heater mounting plate	LPLTM6089FCZZ	AK	1	
		8	Screw (M3x6 S-tight)	XHBS730P06000	AC	3	
		9	T-Heater cover	PCOVP1654FCZ2	AN	1	
		10	Caution label (For high temperature)	TCAUH1035FCZZ	AC	1	
		11	Screw (M3x5 S-tight)	XHBS730P05000	AA	1	
		12	Omega lock	LHLDW1334FCZZ	AA	1	
Scanner heater kit	DKIT-0383FCZZ (120V series) DKIT-0384FCZZ (230V series)	13	Scanner heater (120V series)	RHETP0129FCPZ	AX	1	
			Scanner heater (230V series)	RHETP0130FCPZ			
		14	Heater fixing plate	LPLTM6923FCZZ	AG	1	
		15	Banding band	LBNDJ0013FCZ1	AE	2	
		16	Clamp	LHLDW7011XCZZ	AB	5	
		17	Screw (M3x4 Round-tipped)	LX-BZ1041FCZZ	AB	2	
		18	Screw (M4x6 Bind machine screw)	XBBS740P06000	AA	1	
		19	Snap band	LBNDJ0043FCZZ	AA	1	

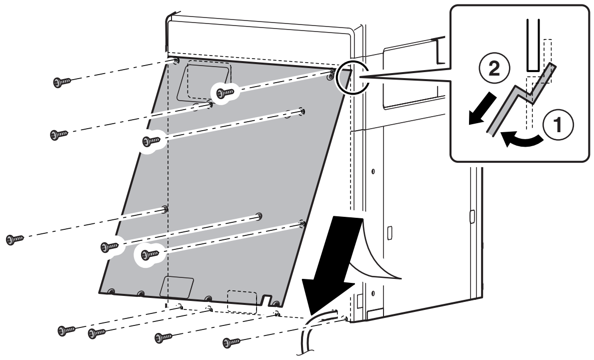
2. Installation

<Note before installation>

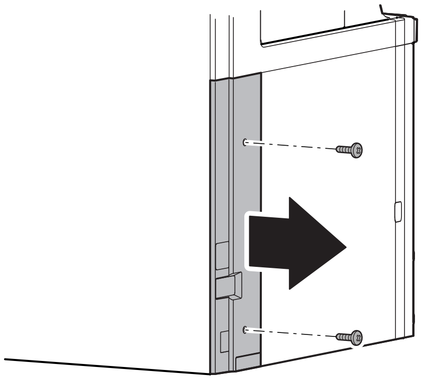
Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

A. Removal of the rear cabinet and the left rear lower cabinet

1) Remove the screw, and remove the rear cabinet.



2) Remove the screw, and remove the left rear lower cabinet.

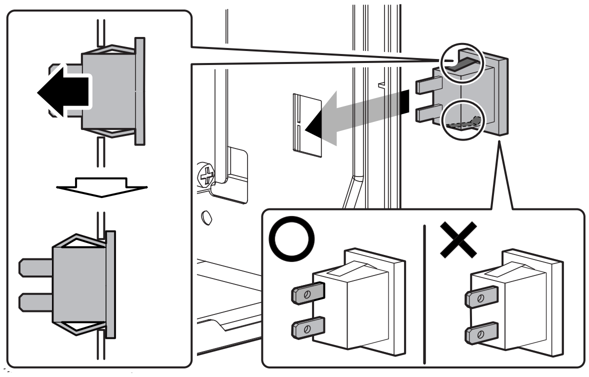


B. Installation of the heater electric component kit

(1) Attaching the dehumidifier heater switch

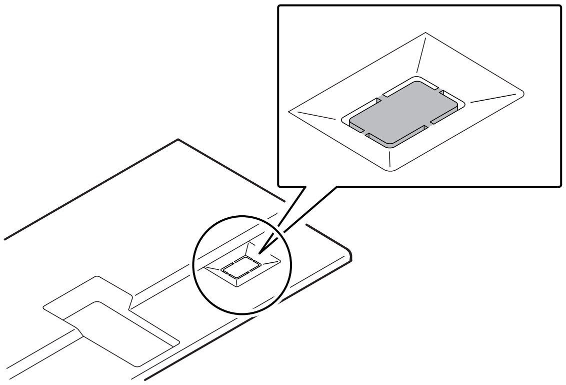
1) Attach the dehumidifier heater switch (package part No. 1) to the frame.

NOTE: Install the dehumidifier heater switch so that the side of the mounting terminal post is the inward side of the main unit.



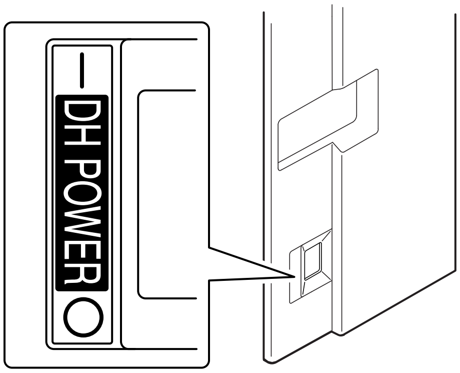
2) Cut the switch part of the left rear lower cabinet.

NOTE: Be careful not to damage the cabinet.



3) Attach the label for heater switch (package part No. 2) to the left rear lower cabinet.

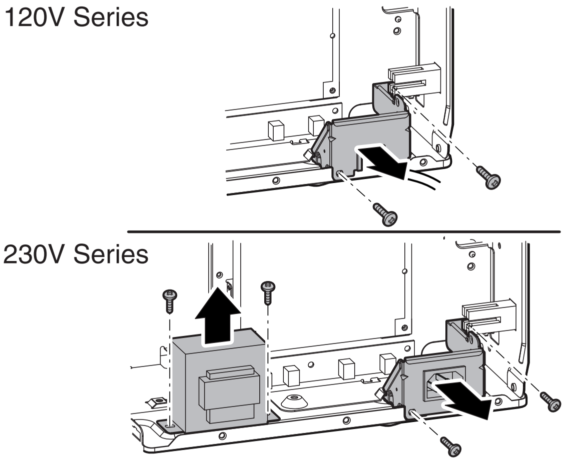
NOTE: Wipe the surface where the label is to be affixed with alcohol, then attach the label along the concave on left rear lower cabinet.



(2) Installation of the WH PWB

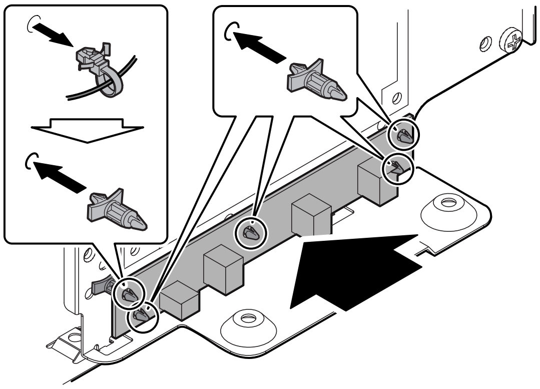
1) Remove the screw, and remove the AC-cable connection plate (only for 120V series), or remove the inlet mounting plate (only for 230V series).

Remove the core (This procedure only applies to the 230V series).

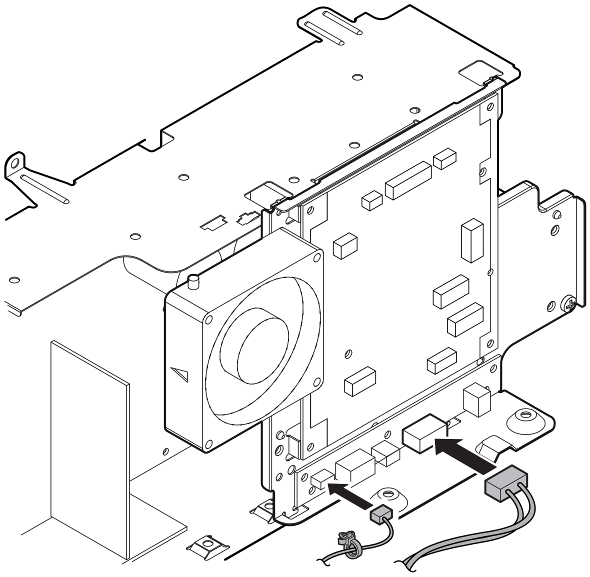


2) Remove the snap band. Insert the supporter (package part No. 3) to the frame of the power unit, and attach the WH PWB (package part No. 4) on it.

NOTE: Be careful not to break the PWB when mounting the PWB to the supporters.

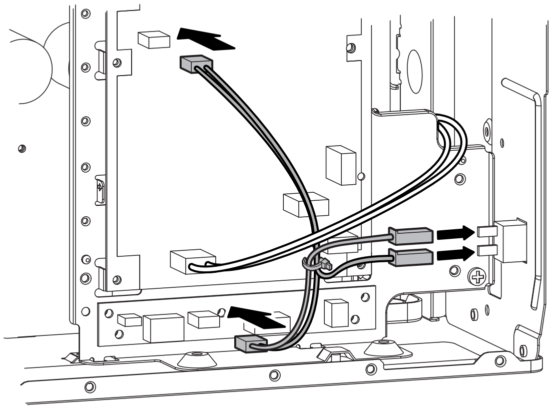


3) Connect the harness to the WH PWB.



4) Connect the AC-WH harness 1 (package part No. 5) to the AC PWB, the WH PWB and the dehumidifier heater switch.

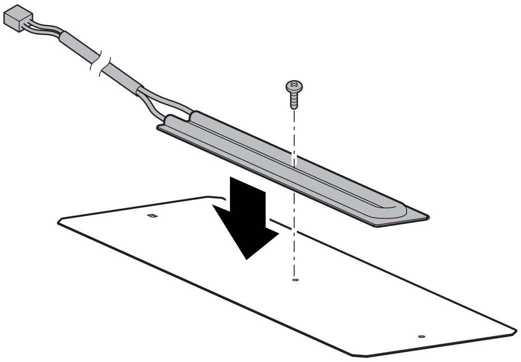
NOTE: The AC-WH harness 1 should pass under the MSW harness.



C. Installation of the heater kit

(1) Assembling of the heater unit

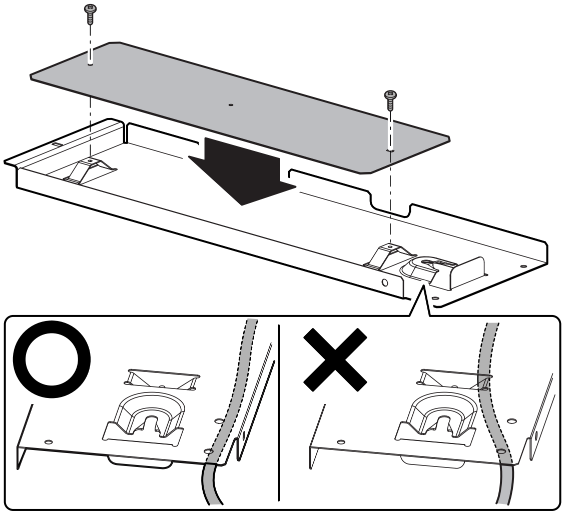
1) Attach the heater (package part No. 6) to the heater mounting plate (package part No. 7), and secure it with the screw (M3x6 S-tight) (package part No. 8).



2) Attach the heater mounting plate to the T-Heater cover (package part No. 9), and secure it with the screw (M3x6 S-tight) (package part No. 8).

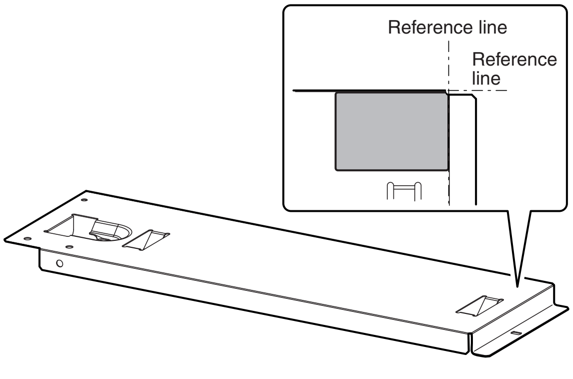
   Attach the snap band of the heater harness to the T-Heater cover.

NOTE: After installing, check that the harness of the heater go straight into the T-Heater cover.



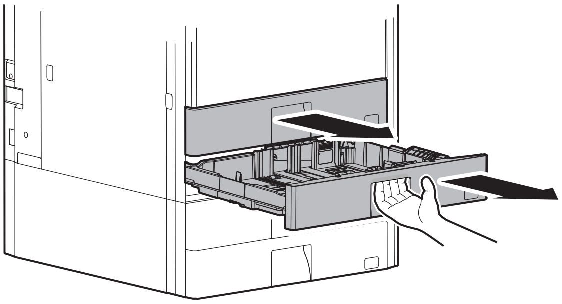
3) Attach the caution label (package part No. 10) to the T-Heater cover.

NOTE: Wipe the surface where the label is to be affixed with alcohol, then attach the label along the reference line.



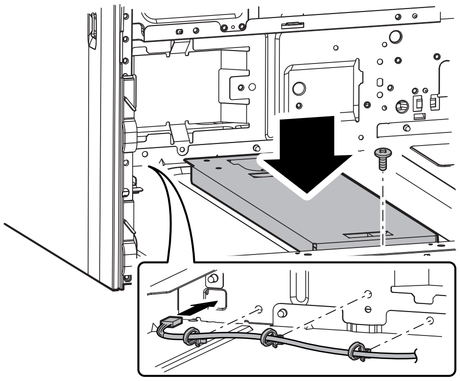
(2) Installation of the heater unit

1) Remove the tray 1 and the tray 2.



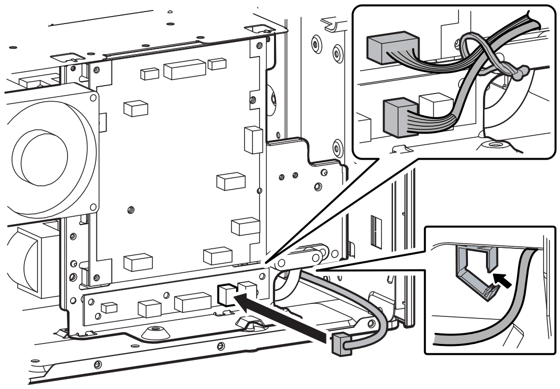
2) Install the heater unit to the main unit, and secure it with the screw (M3x5 S-tight) (package part No.11).

   Pass the harness of the heater through the hole on the main unit frame, and attach the snap band.



3) Pass the harness of heater that arrange behind the main body through the wire saddle, and connect it to the WH PWB.

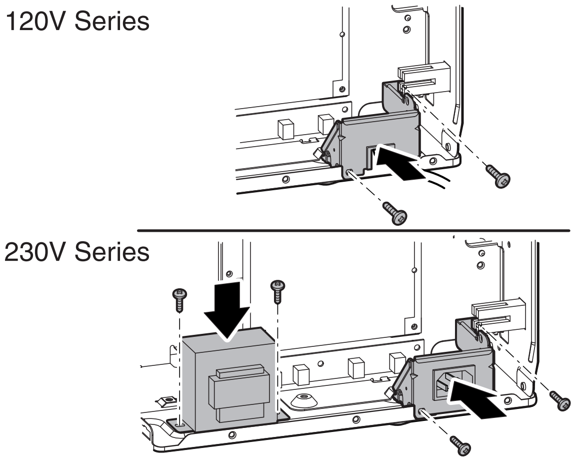
   Bind the harness of the heater and the AC-DC WH harness with the omega lock (package part No. 12).



4) Attach the core (This procedure only applies to the 230V series).

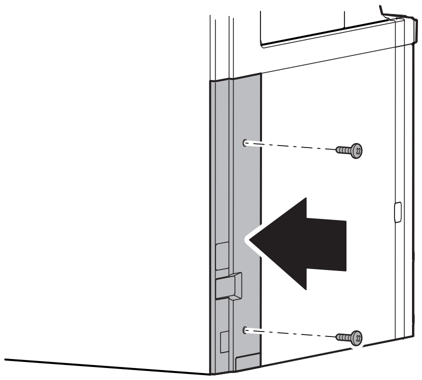
Attach the AC-cable connection plate (only for 120V series), or attach the inlet mounting plate (only for 230V series). Secure it with screw.

NOTE: When installing, be careful to biting the wire.

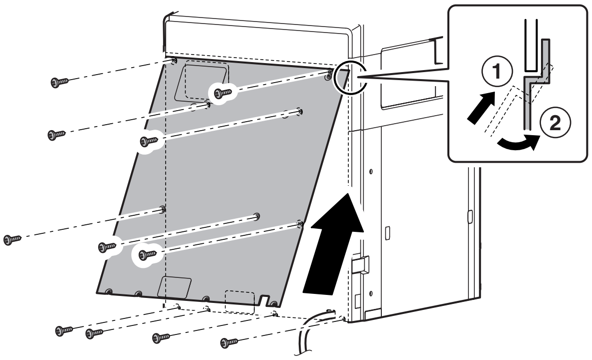


D. Installation of the rear cabinet and the left rear lower cabinet

1) Install the left rear lower cabinet and secure it with the screw.



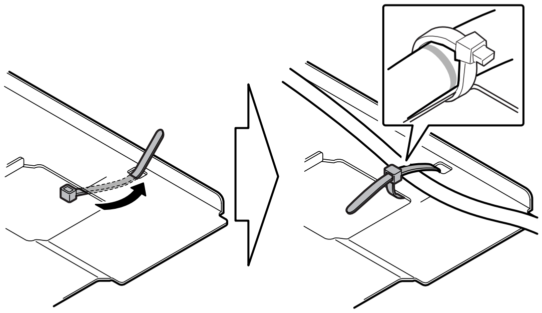
2) Install the rear cabinet and secure it with the screw.



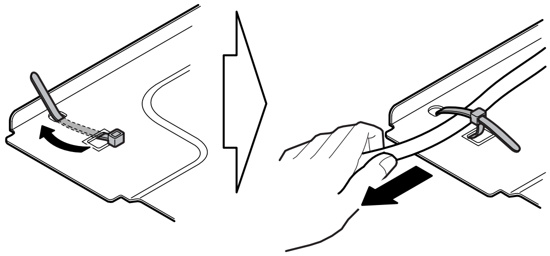
E. Installation of the scanner heater kit

(1) Assembling of the scanner heater unit

1) Secure the marking position on the harness of the scanner heater (package part No.13) to the heater fixing plate (package part No.14) with the banding band (package part No.15).



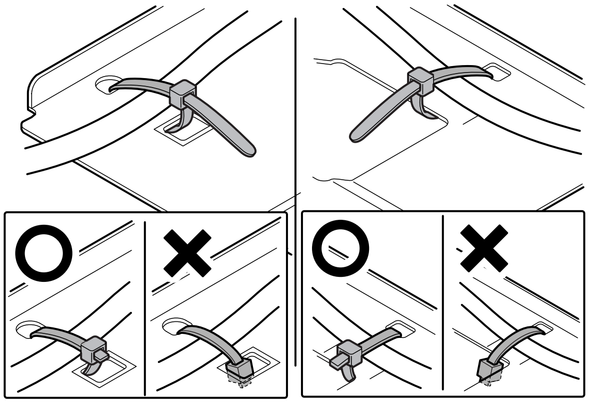
2) Extend the harness, and secure the other position of it with banding band (packing part No.15).



3) Tighten the snap band and cut its tip to approx. 5 mm or less.

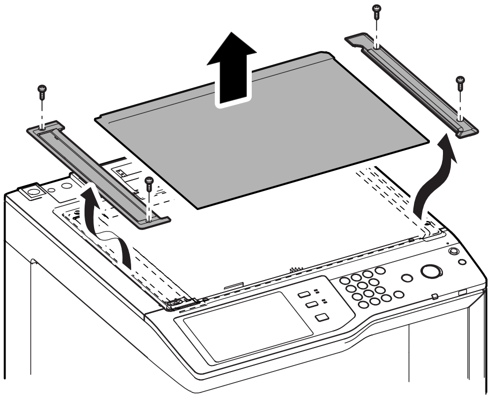
Slide the banding band head to the square hole (Part that is enclosed by the mark).

NOTE: The banding band head and cut tip must not protrude behind the heater fixing plate.

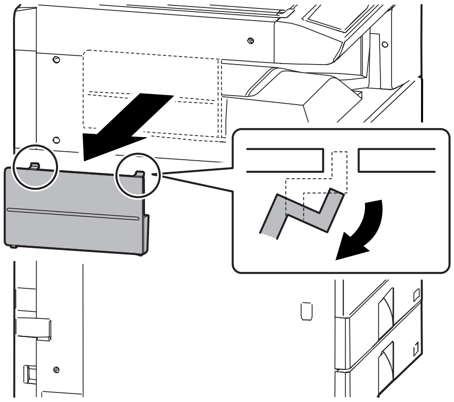


(2) Removal of the table glass, the paper exit cover

1) Remove the screw, and remove the SPF glass and the glass holder. Remove the table glass.



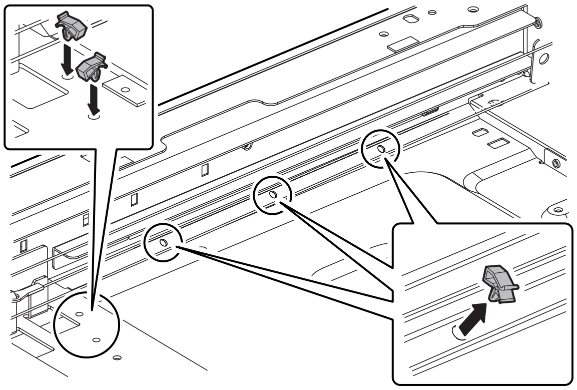
2) Remove the paper exit cover.



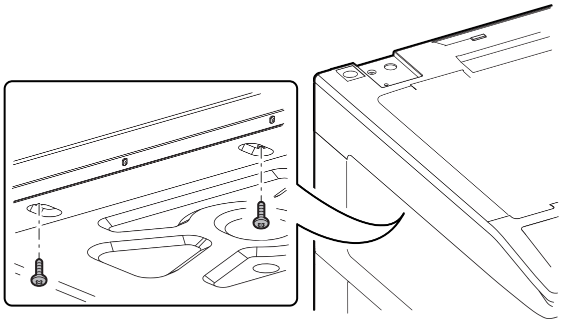
(3) Installation of the scanner heater unit

1) Attach the clamp (package part No. 16) to the scanner frame.

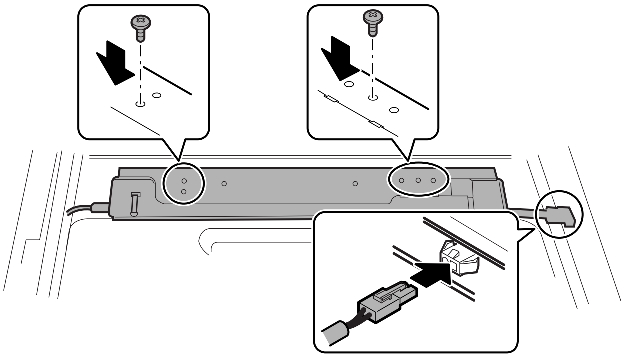
NOTE: When installing, be careful to prevent damage of the wire.



2) Remove two screws from the scanner bottom.

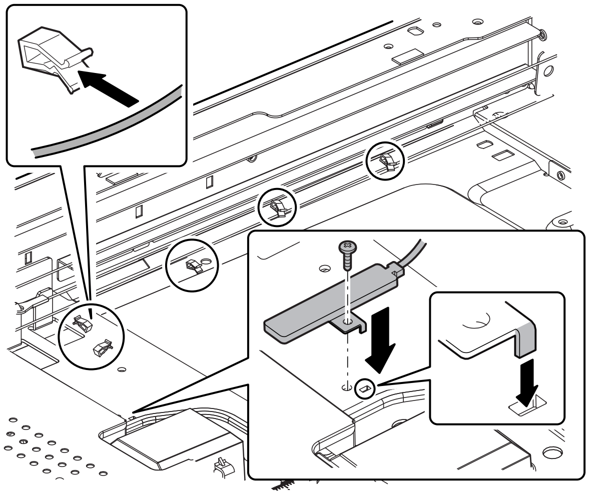


3) Connect the harness of the scanner heater. Install the heater fixing plate of the scanner heater unit, and secure it with the screw (M3x4 Round-tipped) (package part No. 17).

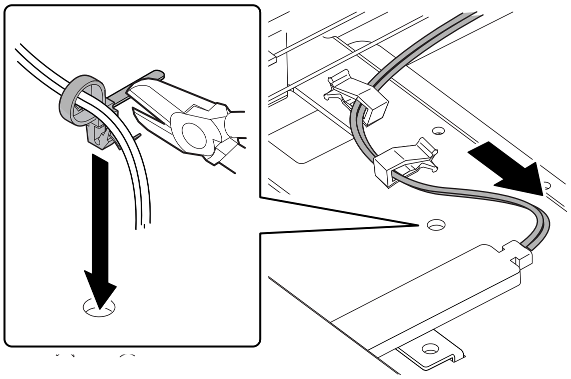


4) Install the scanner heater and secure it with the screw (M4x6 Bind machine screw) (package part No. 18). Pass the harness through the clamp.

NOTE: The convex part of the scanner heater must be inserted into the hole of the scanner frame.

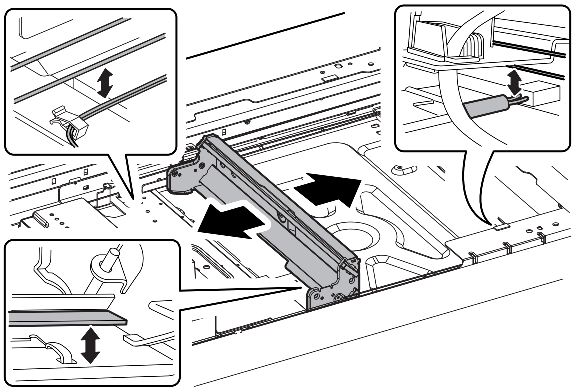


5) Tighten the loose scanner heater harness by pulling it in the arrow direction and secure it with the snap band (packing part No. 19) then cut its tip to approx. 5 mm or less.



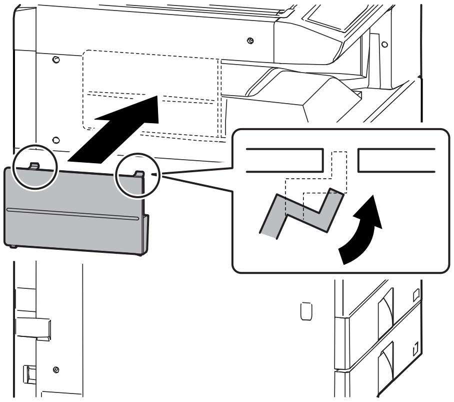
6) Move the lamp unit by hand and check that it move smoothly in all movable area.

NOTE: Check that there is no interference of the harness of the scanner heater in the wire and the 2/3 mirror unit.

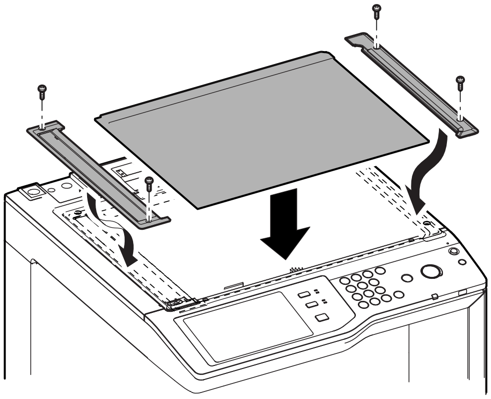


(4) Installation of the table glass, the paper exit cover

1) Install the paper exit cover.

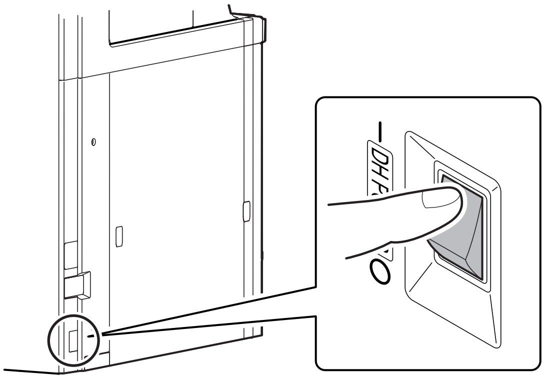


2) Install the table glass. Install the SPF glass and the glass holder, and secure it with the screw.

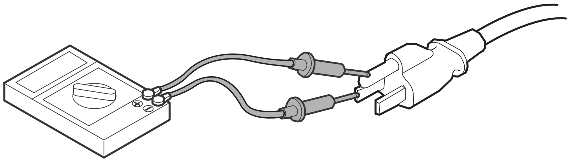


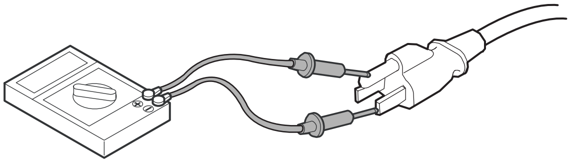
F. Operation check after installation

1) Turn on the dehumidifier heater switch.

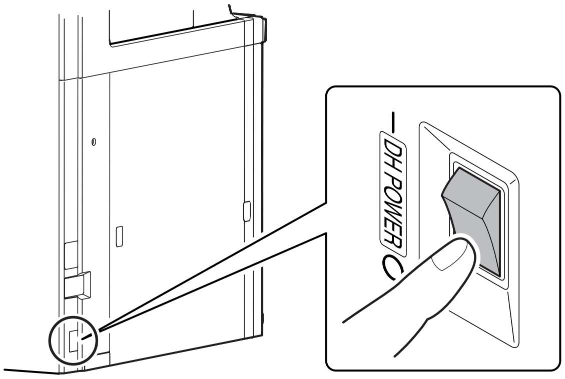


2) Measure the resistance value between the earth terminal and the AC terminal (L side), and between the earth terminal and AC terminal (N side) with the circuit tester, and confirm they are not short-circuited.





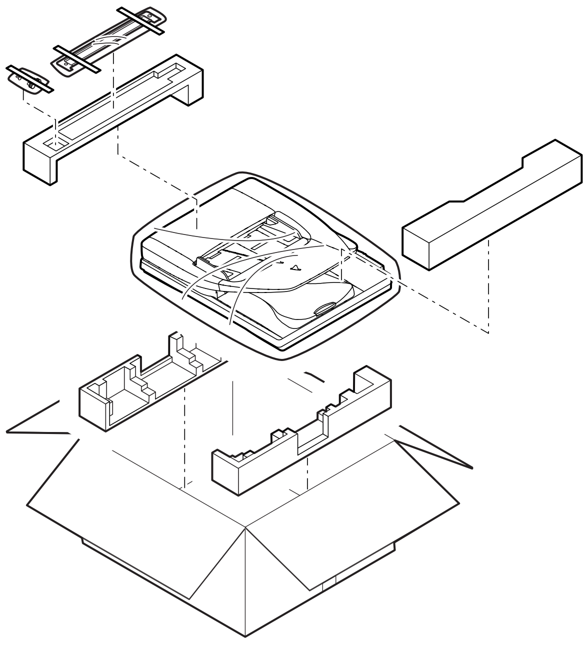
3) When not using the heater after checking, turn off the dehumidifier heater switch.



[28] MX-RP11

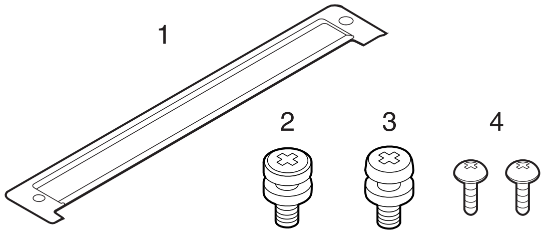
1. Unpacking

A. Removal of the RSPF



B. Check the packed items

1) Check that all the items are included in the package.



No.	Names of bundles	Quantity
1	SPF glass unit	1
2	Step screw R	1
3	SPF step screw R	1
4	Screw (M5 x 16)	2

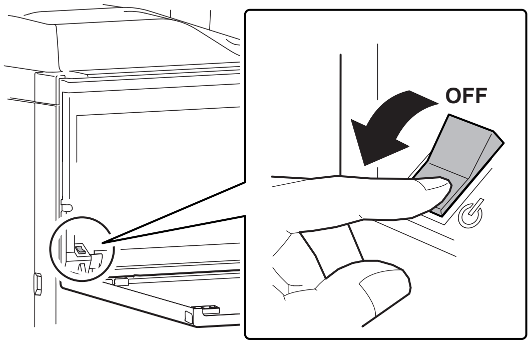
2. Installation

<Note before installation>

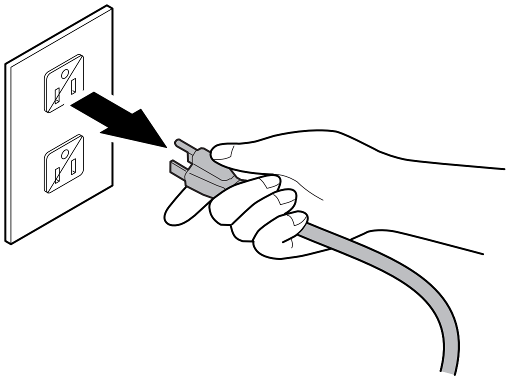
* Before starting installation, check to insure that the data lamp on the operation panel does not light up or blink.

A. Turn off the power of the main unit.

1) Turn OFF the power switch on the operation panel.
2) Open the front cabinet.
   Turn OFF the power switch in the front cabinet of the main unit.

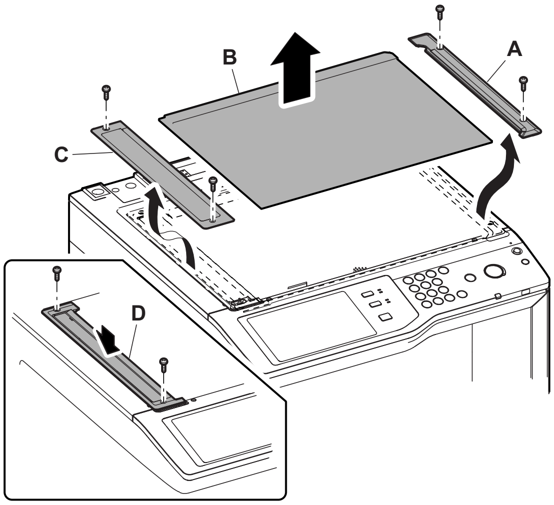


3) Disconnect the power plug of the main unit from the power outlet.

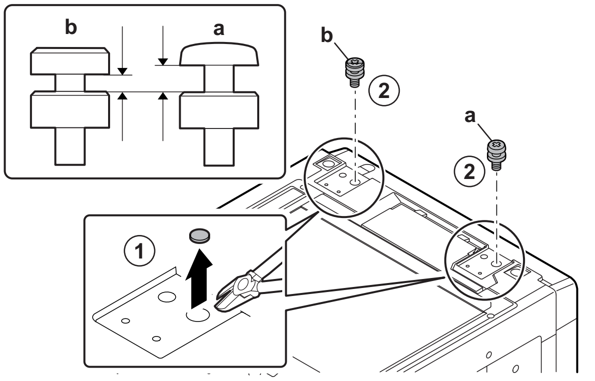


B. RSPF unit installation

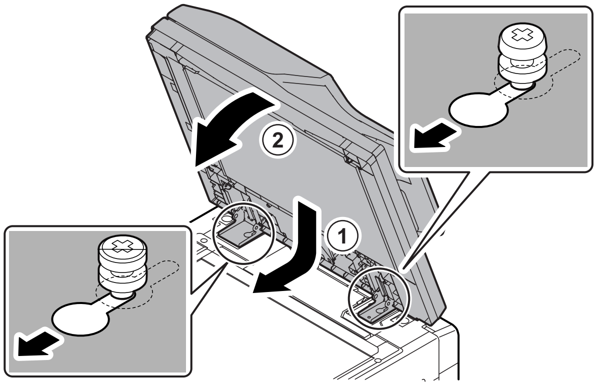
1) Remove the screws, and remove the glass holder (A).
   Remove the table glass (B).
   Remove the screws, and remove the glass holding left OC (C).
   Arrange the SPF glass unit (D) (package part No. 1) and tighten the screws.



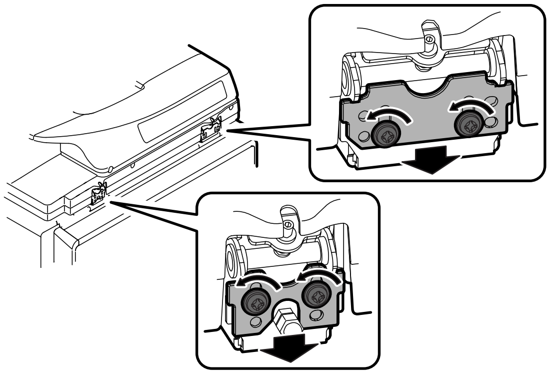
2) Cut the screw hole in the cabinet, and install the SPF step screw R (a) (package part No. 3) and the step screw R (b) (package part No. 2).



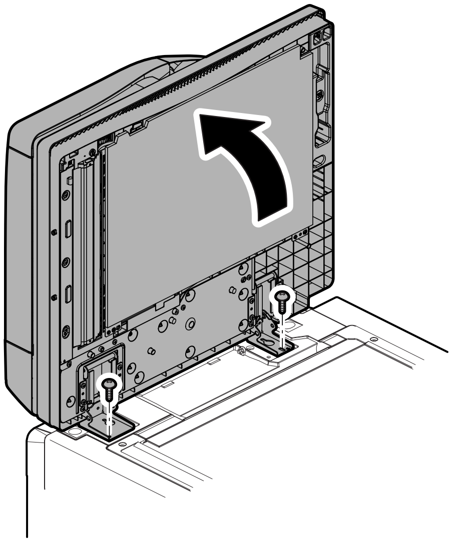
3) Insert the SPF step screw R and the step screw R into the screw hole in the hinge section of the RSPF unit. Slide the unit toward the front side and close.



4) Loosen the screw on the angle adjustment plate in the rear side of the machine and lower the angle adjustment plate.



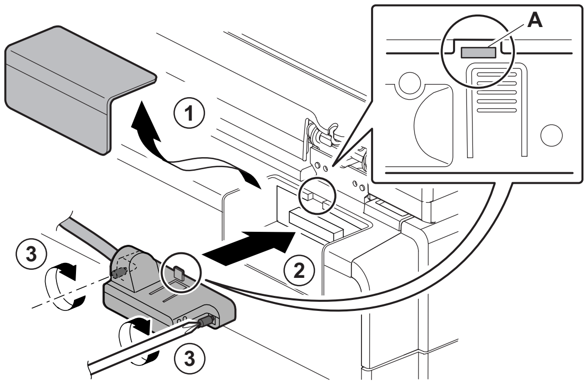
5) Raise the RSPF unit upright, and fix it with the accessory screw (M5 x 16) (package part No. 4).



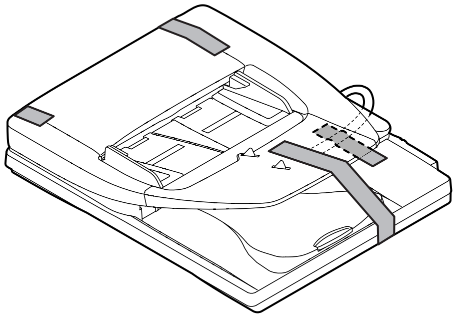
6) Remove the connector cover. Connect the interface connector.

Check to insure that the projection (A) of the interface connector is in the groove on the main unit side as shown in the figure.

Tighten the connector fixing screw.



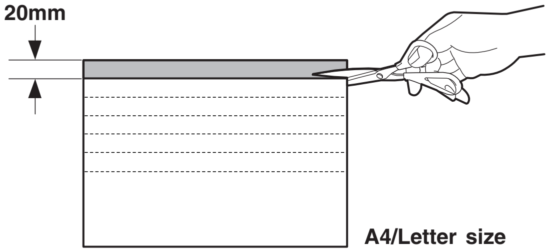
7) Remove the fixing tape.



C. RSPF parallelism adjustment

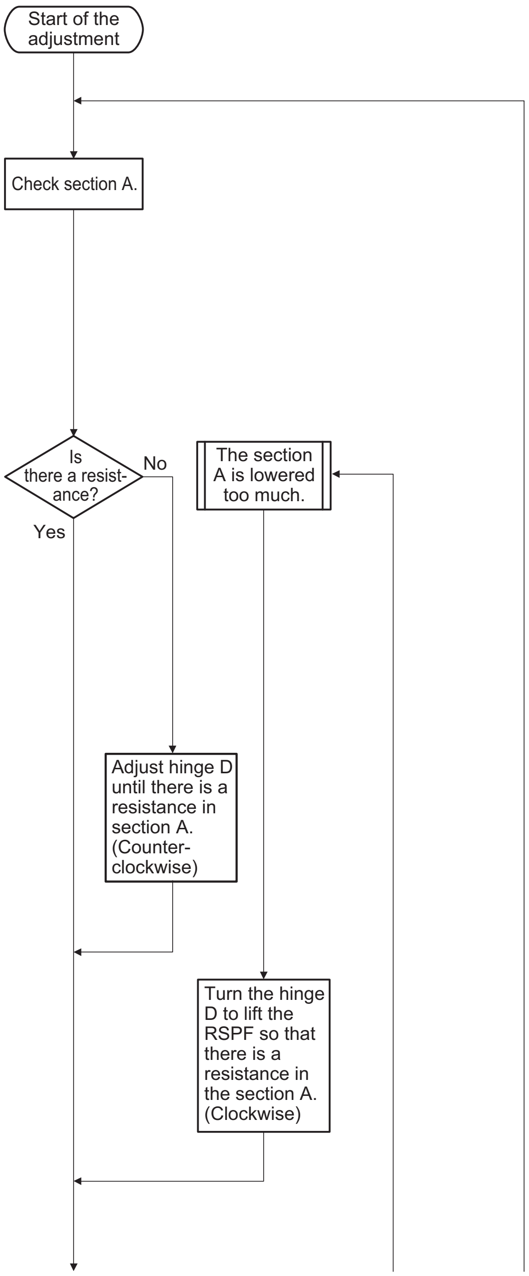
1) Make an RSPF parallelism adjustment sheet.

Cut copy paper in the longitudinal direction.


20mm
A4/Letter size

2) Perform the adjustment according to the flowchart below.

<Flow chart>


Start of the adjustment
Check section A.
Is there a resistance?
No
Yes
The section A is lowered too much.
Adjust hinge D until there is a resistance in section A. (Counterclockwise)
Turn the hinge D to lift the RSPF so that there is a resistance in the section A. (Clockwise)

<Work procedure>

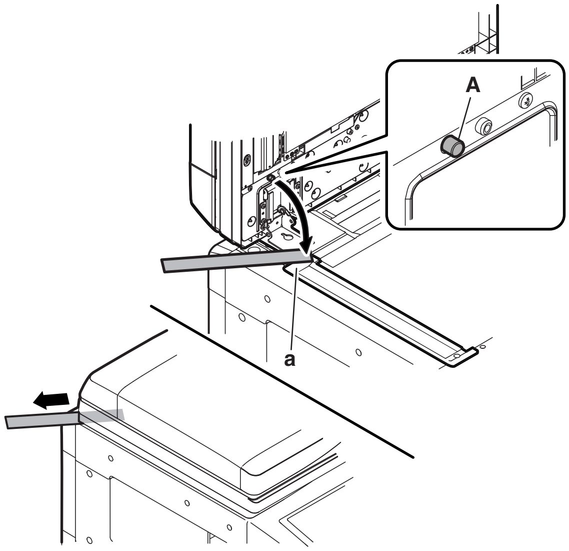
a) Check section A.

Place the RSPF height adjustment sheet between section A and the RSPF glass height adjustment resin surface (a), and close the RSPF unit.

Slowly pull out the RSPF height adjustment sheet.

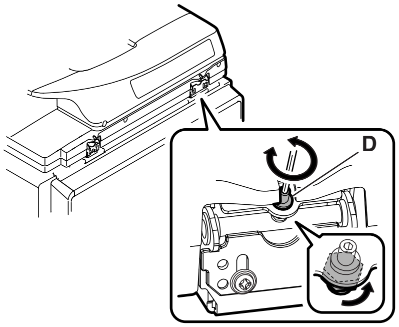
Check to insure that a slight resistance is felt when pulling out the RSPF height adjustment sheet.

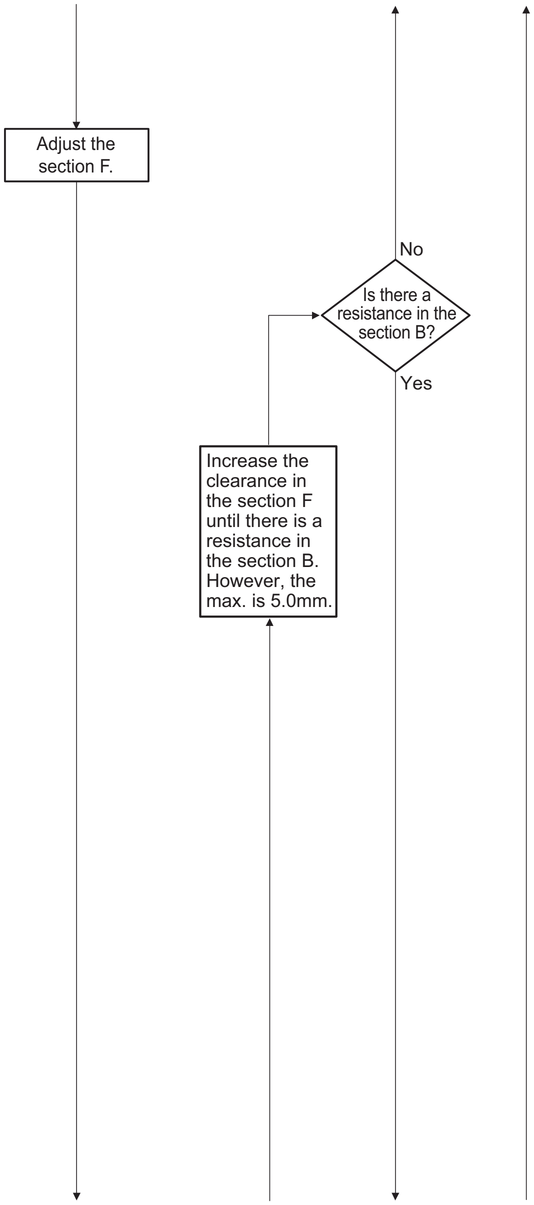
* Be careful not to cover the convex section of the glass holding resin surface with the height adjustment sheet.



b) If it cannot be pulled out, loosen the fixing nut and turn the section D clockwise to lift the RSPF unit, and make an adjustment.

If it can be pulled out without resistance, loosen the fixing nut and turn the section D counterclockwise to move down the RSPF unit, and make an adjustment.



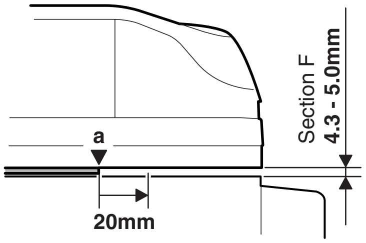

Adjust the section F.
No
Is there a resistance in the section B?
Yes
Increase the clearance in the section F until there is a resistance in the section B. However, the max. is 5.0mm.

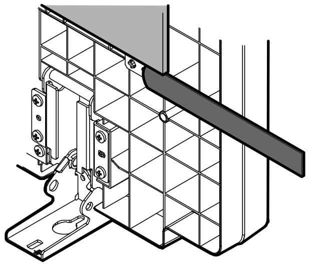
c) Adjust the section F.

Use a clearance gauge to check to confirm that the clearance in the section F is 4.3mm - 5.0mm.

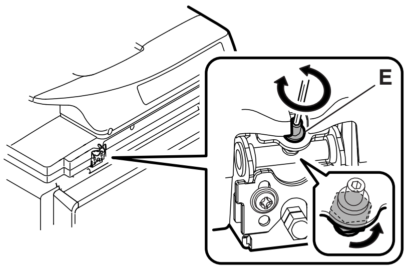
If not, loosen the fixing nut and turn the section E to adjust.

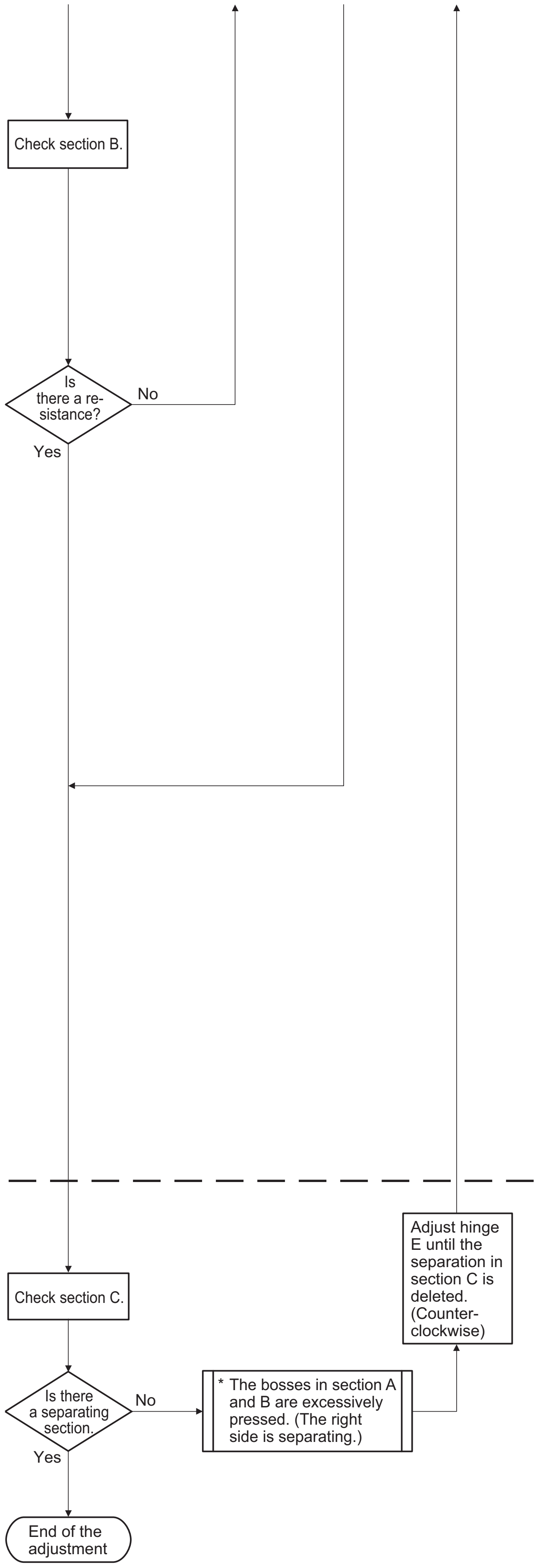
* Insert a clearance gauge in the range of 20mm from the edge (a) of the OC mat.


a
20mm
Section F
4.3 - 5.0mm



* Turn section E clockwise to lift the RSPF unit. Turn it counterclockwise to move down the RSPF unit.




Check section B.
Is there a resistance?
No
Yes
Check section C.
Adjust hinge E until the separation in section C is deleted. (Counter-clockwise)
Is there a separating section.
No
* The bosses in section A and B are excessively pressed. (The right side is separating.)
Yes
End of the adjustment

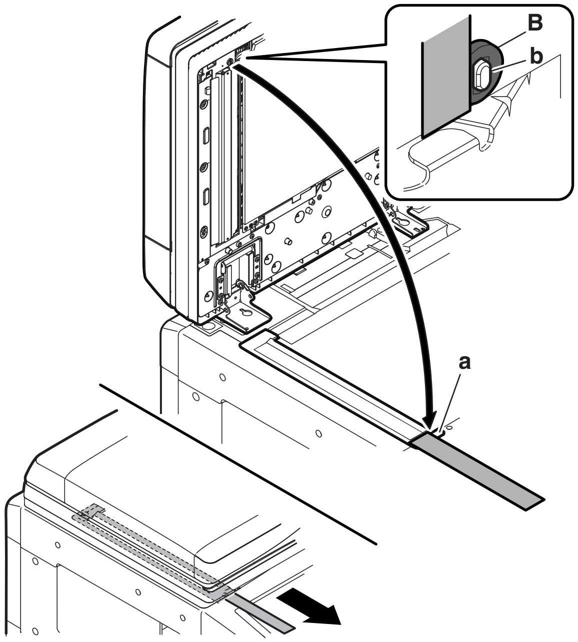
d) Check section B.

Place the RSPF height adjustment sheet between section B and the RSPF glass height adjustment resin surface (a), and close the RSPF unit.

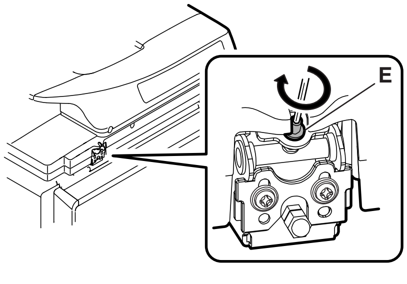
Slowly pull out the RSPF height adjustment sheet.

Check to insure that a slight resistance is felt when pulling out the RSPF height adjustment sheet. (If the boss in section B is in contact, it is O.K.)

* Be careful not to put the book sensor (b) on the height adjustment sheet.

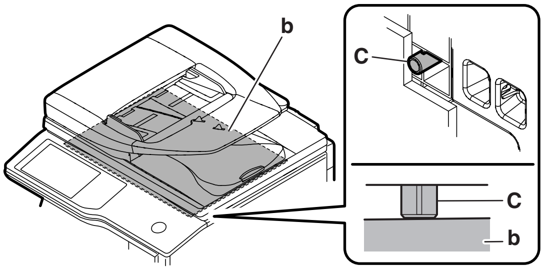


e) If it can be pulled out without resistance, turn the hinge in section E clockwise to adjust.



f) Check section C.

Check to confirm that the projection in section C in the right front side of then RSPF bottom is in contact with the glass surface (b).



D. RSPF skew adjustment (Front surface mode)

This adjustment is needed in the following situations:

* The RSPF section has been disassembled.

* When replacing the RSPF unit.

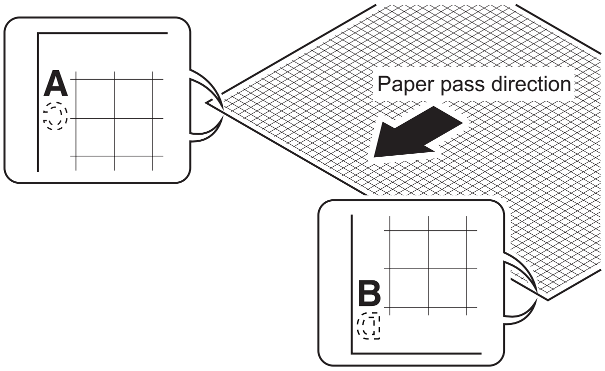
* The RSPF unit generates skewed scanned images.

1) Create an adjustment chart by printing in duplex mode the self-print pattern (grid pattern) specified in Simulation 64-2.

SIM 64-2 set values

A = 1, B = 1, C = 254, D = 255

Make sure that the print grid pattern is almost in parallel with the paper edges, and apply position marks 'A', 'B', 'C' and 'D' to the leading and trailing edges of the paper for both front and back sides of the paper.

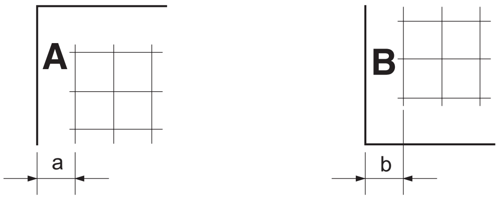


2) Copy the adjustment chart (created in step 1) to A3 (11" x 17") paper in RSPF duplex mode, and then check the image for skews (Set in the RSPF feed tray so that the mark on the adjustment chart is at the edge).

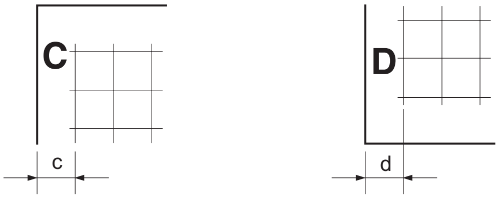
- Check with one of the following methods.

[Check Method 1]

(Front side)
Make sure that the output satisfies the condition: |a-b| ± 1 mm

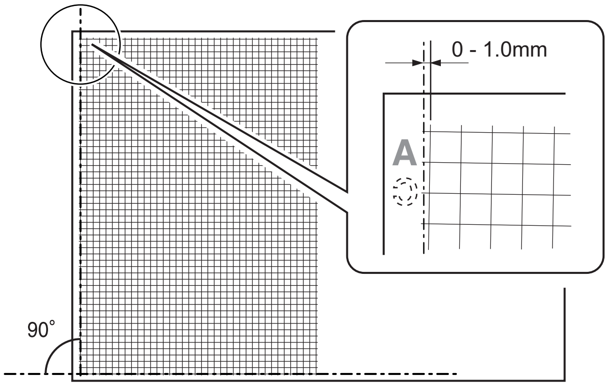


(Back side)
Make sure that the output satisfies the condition: |c-d| ± 1 mm



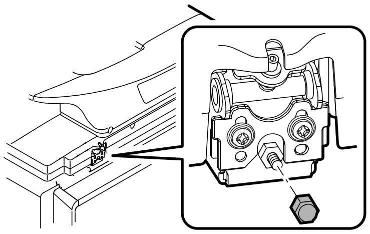
[Check Method 2]

Check that the squareness of the main scanning direction print line for the longitudinal direction of paper is within 1.0mm.

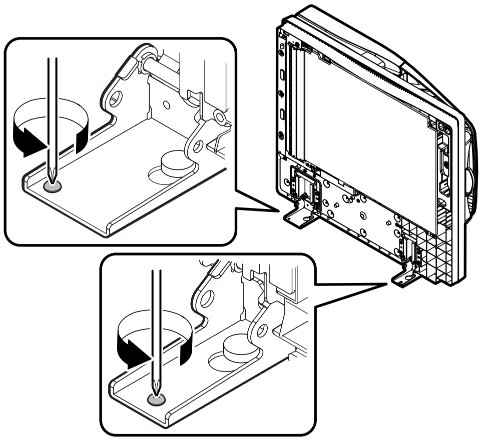


If the above requirement is not met for the paper's front side, then do step 3).

3) Remove the hex nut cover in the RSPF diagonal adjustment screw section.

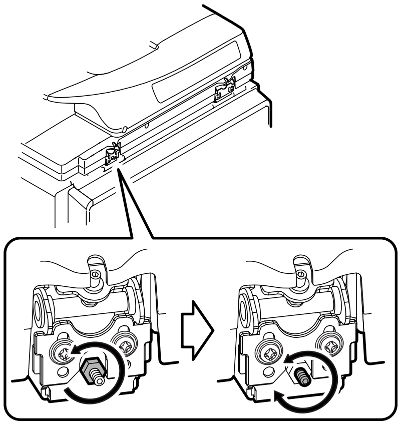


4) Raise the RSPF unit upright, and loosen the fixing screw of the hinge.



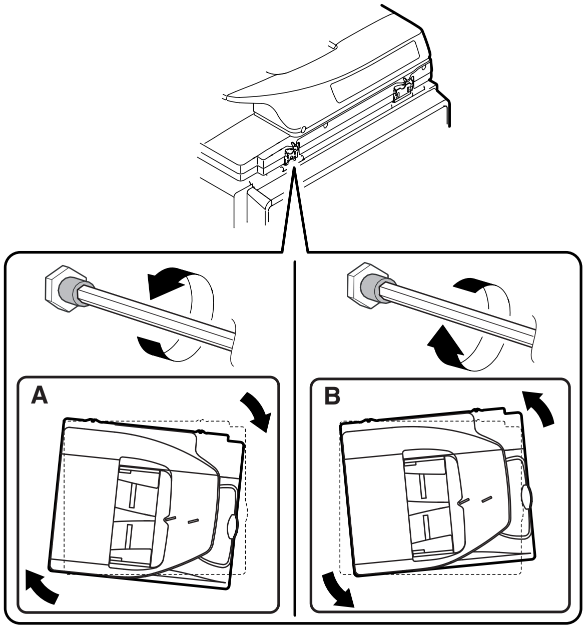
5) Close the RSPF unit, and loosen the hex nut of the RSPF diagonal adjustment screw section.

Turn the hex wrench of the RSPF diagonal adjustment screw to adjust the alignment.



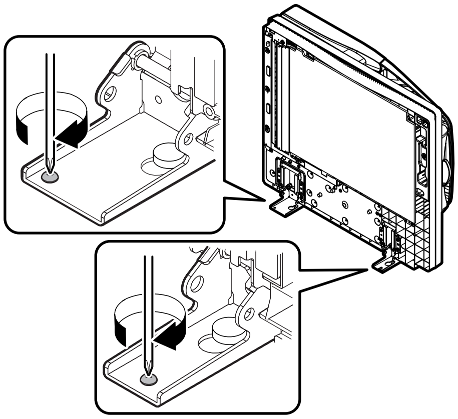
* In the case of (A), turn the RSPF diagonal adjustment screw counterclockwise.

In the case of (B), turn the RSPF diagonal adjustment screw clockwise.



6) Make a copy again and measure (a) and (b) on the copied test chart. Repeat procedures 2) to 5) until the condition ((a) - (b) = ± 1mm or less) is satisfied.

7) Tighten the hinge section fixing screw which was loosened in the procedure 4) to tighten the hinge section.

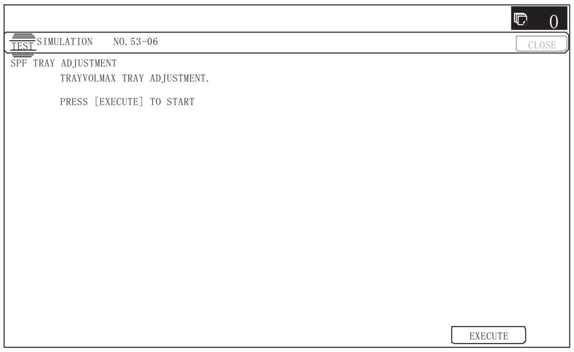


E. RSPF paper feed tray paper width sensor adjustment

This adjustment is needed in the following situations:

- * The RSPF paper feed tray section has been disassembled.
- * The RSPF paper feed tray unit has been replaced.
- * When a U2 trouble occurs.
- * The scanner PWB has been replaced.
- * The EEPROM on the scanner PWB has been replaced.

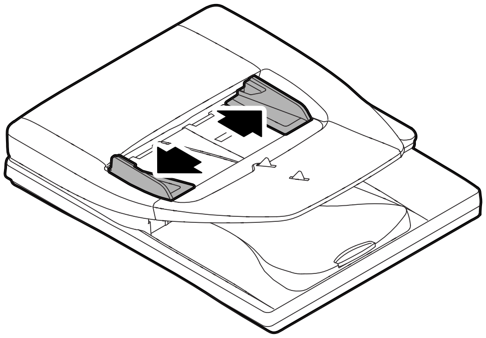
1) Enter the SIM 53-6 mode.



```
SIMULATION    NO.53-06
SPF TRAY ADJUSTMENT
        TRAYVOLMAX TRAY ADJUSTMENT.

        PRESS [EXECUTE] TO START
```

2) Open the RSPF paper feed guide to the maximum width position.



3) Press [EXECUTE] key.

The maximum width detection level is recognized.

4) Open the RSPF paper feed guide to the width for the A4R size.

5) Press [EXECUTE] key.

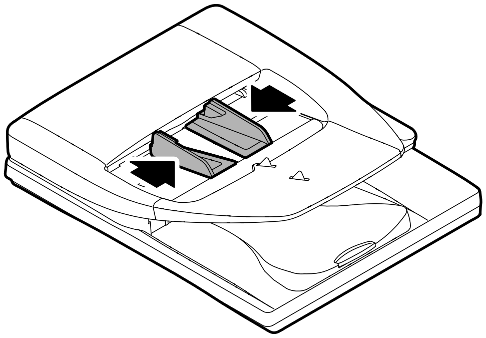
The A4R width detection level is recognized.

6) Open the RSPF paper feed guide to the width for the A5R size.

7) Press [EXECUTE] key.

The A5R width detection level is recognized.

8) Open the RSPF paper feed guide to the minimum width position.



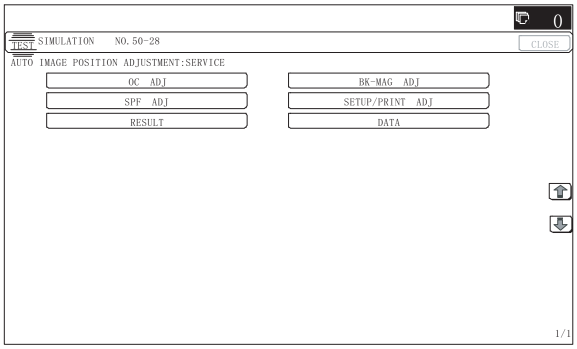
9) Press [EXECUTE] key.

The minimum width detection level is recognized.

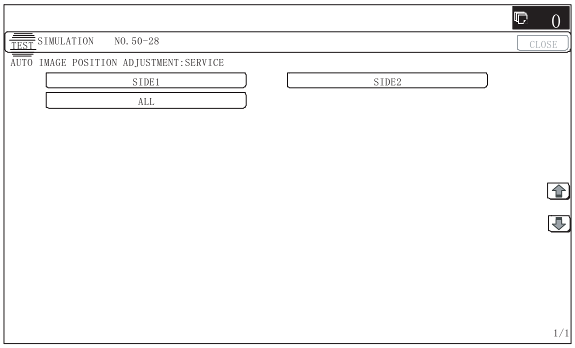
* When each of the above operations has been completed, the "COMPLETE" message appears; when any of the operations has failed, the "ERROR" message appears.

F. Copy image off-center, image lead edge position, sub scanning direction image magnification ratio automatic adjustment (RSPF mode)

1) Enter the SIM50-28 mode.



2) Press the [SPF ADJ] button.



3) Proceed to one of the three screens for selecting the cassette used to print RSPF adjustment patterns by selecting the corresponding button.

Select [ALL] with the key button.

SIDE1: RSPF adjustment for the front side

SIDE2: RSPF adjustment for the back side

ALL: RSPF adjustment for both the front and back sides

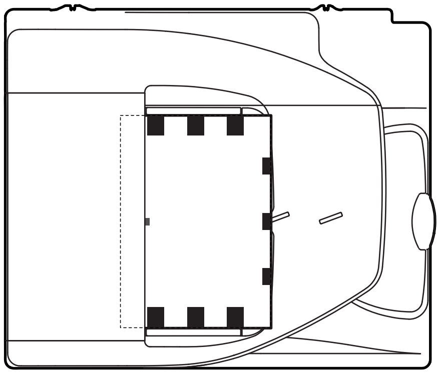
4) Select one of the cassettes that can be used to print RSPF adjustment patterns. (Multiple selection is not allowed.)

5) Press the [EXECUTE] button, and the machine starts self-print of RSPF adjustment patterns.

* The screen shows a message indicating that the machine is self-printing RSPF adjustment patterns.

When self-print finishes, the next screen appears where you can start RSPF adjustments.

6) RSPF adjustment patterns are loaded into the RSPF.



* By pressing the [REPRINT] button, you can return to the cassette selection screen and have the machine self-print RSPF adjustment patterns again.

7) Press the [EXECUTE] button, and the machine starts reading RSPF adjustment patterns (for the front side).

* The screen shows a message indicating that the machine is reading and calculating RSPF adjustment patterns (for the front side).

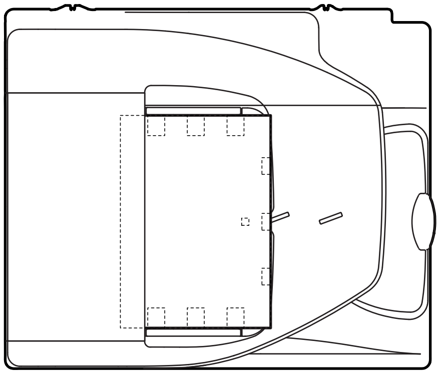
The machine starts calculating the adjustment amount (for the front side) after it has read the patterns for the front side.

After the machine has finished calculating the adjustment amount for the front side, the next screen appears where you can have the machine start reading RSPF adjustment patterns (for the back side).

<Adjustment item list>

- RSPF original leading edge adjustment (front side)
- RSPF original off-center adjustment (front side)
- RSPF sub-scan magnification ratio adjustment (front side)

8) RSPF adjustment patterns are loaded into the RSPF.



* By pressing the [REPRINT] button, you can return to the cassette selection screen and have the machine self-print RSPF adjustment patterns again.

9) Press the [EXECUTE] button, and the machine starts loading RSPF adjustment patterns (for the back side).

* The screen shows a message indicating that the machine is reading RSPF adjustment patterns (for the back side).

The machine starts calculating the adjustment amount (for the back side) after it has read the patterns for the back side.

After the machine has finished calculating the adjustment amount for the back side, the next screen appears where you can view the results of the adjustments.

<Adjustment item list>

- RSPF original leading edge adjustment (back side)
- RSPF original off-center adjustment (back side)
- RSPF sub-scan magnification ratio adjustment (back side)

10) The adjustment result screen appears.

This screen shows the current values along with the previous values in parentheses.

* By pressing the [REPRINT] button, you can return to the cassette selection screen and have the machine self-print RSPF adjustment patterns (for the front and back sides) again.

* To have the machine start re-reading the RSPF adjustment patterns (front and back sides), press the [RESCAN] button.

* To return to the top menu without saving the adjustment values into EEPROM and RAM, press the [RETRY] button.

* To display the data used for adjustment, press the [DATA] button.

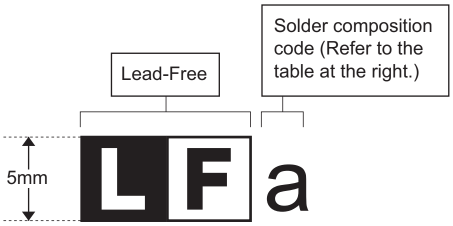
11) To save the adjustment values into EEPROM and RAM and return to the top menu, press the [OK] button.

* To return to the result screen, press the [BACK] button.

LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder. The alphabet following the LF mark shows the kind of lead-free solder.

Example:



<Solder composition code of lead-free solder>

Solder composition	Solder composition code
Sn-Ag-Cu	a
Sn-Ag-Bi Sn-Ag-Bi-Cu	b
Sn-Zn-Bi	z
Sn-In-Ag-Bi	i
Sn-Cu-Ni	n
Sn-Ag-Sb	s
Bi-Sn-Ag-P Bi-Sn-Ag	p

(1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread.

Never use conventional lead solder thread, which may cause a breakdown or an accident.

Since the melting-point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusive-use soldering iron is recommended.

(2) NOTE FOR SOLDERING WORK

Since the melting-point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.

Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently.

If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.

If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION
Il y a danger d'explosion s' il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung
Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA, CANADA)
"BATTERY DISPOSAL"
THIS PRODUCT CONTAINS A LITHIUM PRIMARY
(MANGANESS DIOXIDE) MEMORY BACK-UP BATTERY
THAT MUST BE DISPOSED OF PROPERLY. REMOVE THE
BATTERY FROM THE PRODUCT AND CONTACT YOUR
LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION
ON RECYCLING AND DISPOSAL OPTIONS.

"TRAITEMENT DES PILES USAGÉES"
CE PRODUIT CONTIENT UNE PILE DE SAUVEGARDE DE
MÉMOIRE LITHIUM PRIMAIRE (DIOXYDE DE MANGANÈSE)
QUI DOIT ÊTRE TRAITÉE CORRECTEMENT. ENLEVEZ LA
PILE DU PRODUIT ET PRENEZ CONTACT AVEC VOTRE
AGENCE ENVIRONNEMENTALE LOCALE POUR DES
INFORMATIONS SUR LES MÉTHODES DE RECYCLAGE ET
DE TRAITEMENT.

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